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# UNDERGRADUATE GUIDE

The *Guide* contains information about the many academic programs that make the University of Wisconsin–Madison one of the world’s foremost institutions of higher education.

The *Guide* is published online only. It is not available in printed format.

The information in the *Guide* applies to all undergraduate students at the university regardless of their classification (school/college affiliation). Information in the individual school/college sections applies specifically to students who intend to graduate from one of those schools or colleges.

It is important for students to be familiar with all the information that applies to them. Students are strongly encouraged to consult their advisors at least once each semester to be certain they are completing requirements that apply to their degree and major programs.

The *Guide* is intended to complement other university information including specific materials supplied by schools, colleges, departments, and programs.

For more information about admission expectations, academic preparation, the application process, and important dates and deadlines, contact:

Office of Admission and Recruitment (<https://www.admissions.wisc.edu/>)  
702 West Johnson Street, Suite 1101  
Madison, WI 53715-1007  
onwisconsin@admissions.wisc.edu  
608-262-3961

Schedule a campus tour at VisitBucky (<https://www.admissions.wisc.edu/visitbucky/>) or call 608-262-3961.

UW–Madison summer brochures and program information are available from the Division of Continuing Studies (<http://continuingstudies.wisc.edu/>).

All entering students, to protect their interests, should become well acquainted with the regulations regarding student academic and nonacademic misconduct. Information about the Family Educational Rights and Privacy Act of 1974, as amended, is distributed during Wisconsin Welcome and is available at:

Office of the Registrar (<https://registrar.wisc.edu/>)  
333 East Campus Mall #11101  
Madison, WI 53715-1384

## ACCREDITATION

The University of Wisconsin–Madison is accredited by the Higher Learning Commission (<http://www.hlcommission.org/>).

230 South Lasalle Street, Suite 7-500  
Chicago, IL 60604  
Telephone 1-800-621-7440  
[www.hlcommission.org](http://www.hlcommission.org) (<http://www.hlcommission.org>)

UW–Madison, which was first accredited in 1913, was last accredited in 2019, and will go through a reaccreditation process again in 2028–29.

Student achievement data (<https://data.wisc.edu/student-achievement-data/>)

## SAFE LEARNING AND WORK ENVIRONMENT

Guide to creating and maintaining a Safe Learning and Work Environment at UW–Madison: Responsibilities, Resources, and Reporting Requirements. (<https://compliance.wisc.edu/safe-learning-work-guide/>)

## CONSUMER INFORMATION

UW–Madison is required by law to make available to enrolled and prospective students and their parents’ certain information about its operations. Such information pertains to:

1. general institutional operation
2. financial aid
3. retention and graduation rates
4. annual security & fire report, and
5. athletic program participation rates, financial support, and graduation rates

To meet the requirement, information for the University of Wisconsin–Madison is provided on the Consumer Information webpage (<https://financialaid.wisc.edu/consumer-info/>).

## DISTANCE EDUCATION AUTHORIZATION AND DISCLOSURES

UW–Madison complies with the requirements and standards set by the National Council for State Authorization Reciprocity Agreements (NC-SARA) (<https://nc-sara.org/>).

Disclosures and information related to distance education at UW–Madison is available on the Distance Education, State Authorization, and Disclosures webpage (<https://apir.wisc.edu/institution/distance-education/>).

## REGISTRATION WITH MINNESOTA OFFICE OF HIGHER EDUCATION

The University of Wisconsin–Madison is a public institution registered as a "Private Institution" with the Minnesota Office of Higher Education pursuant to sections 136A.61 to 136A.71. Registration is not an endorsement of the institution. Credits earned at the institution may not transfer to all other institutions.

## EQUAL OPPORTUNITY, EQUAL ACCESS, AND NON-DISCRIMINATION

The University of Wisconsin – Madison is committed to providing equal opportunity and equal access in compliance with all applicable federal and state laws and regulations and University of Wisconsin System and university non-discrimination policies and procedures.

## POLICIES & PROCEDURES

The Office of Compliance promotes ethical conduct and compliance with all applicable laws, regulations and UW–Madison policies. UW–Madison’s

non-discrimination statement, contact information for the university's Equal Opportunity Investigations Administrator, Title IX Coordinator, ADA Coordinator as well as information regarding UW–Madison's Equal Opportunity Complaint process is available on the Office of Compliance's website (<https://compliance.wisc.edu/eo-complaint/>).

## DISABILITY RESOURCES

The McBurney Disability Resource Center is an office within the Division of Student Affairs that views disability as an important aspect of the diversity of UW–Madison. We are committed to creating an accessible and inclusive educational experience for students. We do this by partnering with students, faculty, and staff to design accessible environments and to provide academic accommodations so that students can engage, explore and participate in the Wisconsin Idea.

We work with UW–Madison students with physical, learning, hearing, vision, psychological, health and other disabilities substantially affecting a major life activity (e.g., walking, communicating, learning, seeing, breathing, reading, etc.). Many students have non-apparent disabilities such as depression, anxiety, autism spectrum, learning disabilities, AD/HD and health conditions such as Crohn's disease or fibromyalgia.

Common accommodations include extended time and/or small group environment for exams, notetaking support, sign language interpreting, real time and media captioning, and conversion of printed materials to accessible formats. McBurney Center staff members also collaborate with students and faculty to determine reasonable flexibility with regard to attendance, participation, and deadlines for conditions that fluctuate in severity over the course of enrollment. The Center makes referrals to other campus offices or community resources for non-classroom accommodations related to housing, transportation, personal care needs, and so on. Students should contact the Center upon admission to begin the eligibility for services process. Early notice is essential in order to have accommodations in place prior to the start of the semester. For detailed information, see How to apply for accommodations (<https://mcburney.wisc.edu/apply-for-accommodations/>).

McBurney Disability Resource Center  
702 West Johnson Street, Suite 2104  
Madison, WI 53706  
608-263-2741 (voice)  
608-225-7956 (text)  
608-265-2998 (fax)  
[mcburney@studentlife.wisc.edu](mailto:mcburney@studentlife.wisc.edu)  
[www.mcburney.wisc.edu](http://www.mcburney.wisc.edu/) (<http://www.mcburney.wisc.edu/>)

**The information, policies, and rules contained herein are subject to change. The information in this catalog is current as of June 1, 2023. Later revisions are announced through department or program offices. Students are responsible for knowing current university regulations. University offices can provide current information about possible changes.**

## ADMISSION

### OFFICE OF ADMISSIONS AND RECRUITMENT

Students seeking to earn a bachelor's degree from the University of Wisconsin–Madison will apply for admission through the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>). Undergraduate admission is competitive and selective; professional

admissions counselors review applications using a holistic process. We focus on academic excellence, reviewing high school and college coursework (when applicable), the courses students have chosen to take, the rigor and breadth of the curriculum, and how the student has performed in their coursework. We also consider written essays, letters of recommendation, extracurricular involvement, and optional test scores.

Our review process is designed to help us identify students who are not only academically stellar but also have qualities such as leadership, concern for humanity, and achievement in the arts, athletics, and other areas. We also seek diversity in personal background and experience for potential contribution to the University of Wisconsin–Madison community.

We invite and encourage all students considering the University of Wisconsin–Madison to join us on campus for a visit (<https://apps.admissions.wisc.edu/visitbucky/>). There are many options to explore and discover what UW–Madison has in store.

### APPLY ([HTTPS://ADMISSIONS.WISC.EDU/HOW-DO-I-APPLY-TO-UW-MADISON/](https://admissions.wisc.edu/how-do-i-apply-to-uw-madison/))

To submit an application for admission, review the application dates and deadlines, as well as the required application materials listed on our website.

Deadlines (<https://admissions.wisc.edu/deadlines/>)  
First-Year Applicants (<https://admissions.wisc.edu/apply-as-a-freshman/>)  
Transfer Applicants (<https://admissions.wisc.edu/apply-as-a-transfer/>)  
Reentry Applicants (<https://admissions.wisc.edu/apply-as-a-reentry-student/>)  
Second Degree Applicants (<https://admissions.wisc.edu/apply-as-a-second-degree-student/>)

## FIRST-YEAR STUDENTS

Competitive first-year applicants have taken advantage of the rigor offered at their high schools and have performed well in challenging courses. Beyond academic excellence, we are looking for students who demonstrate leadership, community engagement, and passion.

Students are considered first-year applicants if they have not yet completed high school (secondary-level education); have not earned a GED/HSED (but will by the time they enroll at UW–Madison); or have not enrolled in a college or university in a degree-granting program since graduating high school or earning a GED/HSED. For more information about admission requirements and expectations of first-year applicants, please see our website (<https://admissions.wisc.edu/apply-as-a-freshman/>).

## TRANSFER STUDENTS

Successful transfer applicants will have a consistently high or upward grade trend; a strong cumulative grade point average; and rigorous coursework in English composition, college-level math, science, social science, humanities, literature, and foreign language. Admission to the university does not guarantee acceptance to an intended major, which is a separate process from undergraduate admission.

Students are considered transfer applicants if they have enrolled in an accredited college or university in a degree-granting program after graduating from high school or earning a GED/HSED. Students must have 24 transferable credits earned at a college or university after high school graduation to be eligible for admission as a transfer applicant. For more information about admission requirements and expectations of transfer

applicants, please see our website (<https://admissions.wisc.edu/apply-as-a-transfer/>).

Prospective transfer students can begin satisfying UW–Madison general education and degree requirements before transferring. Transfer credit is generally given for college-level courses taken at a degree-granting institution accredited by a CHEA-recognized organization (<http://chea.org/>). Courses must be similar in nature, level, and content to UW–Madison undergraduate courses and apply to a UW–Madison academic program. Students may wish to consult the UW–Madison Transfer Credit Policy (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>) for more details.

## TRANSFER ARTICULATION AGREEMENTS

A transfer articulation agreement defines accepted transfer courses/credits between two institutions, promoting the successful transfer of completed coursework into UW–Madison required coursework.

UW–Madison currently participates in two transfer articulation agreements with the Wisconsin Technical College System.

1. Universal Undergraduate Credit Transfer Agreement (<https://uwmadison.box.com/v/UCTA-articulation/>);
2. University of Wisconsin System Collaborative Nursing Program/BSN@Home Agreement (<https://uwmadison.box.com/v/BSNHome-articulation/>).

## REENTERING STUDENTS

Students previously registered at UW–Madison in an undergraduate degree program who wish to resume undergraduate study after an absence of a semester or more are considered reentry students. Reentry students must file an application for readmission but are not subject to the application fee.

To guarantee an early enrollment appointment time, reentry students should submit the complete application by March 1 for the summer or fall term or by November 1 for the spring term. In addition to submitting an application (<https://admissions.wisc.edu/apply-as-a-reentry-student/>), reentry applicants must submit official transcripts for any work completed elsewhere since last enrolled at UW–Madison, a list of courses in progress (if applicable), and an academic action from the dean's office if they are in "dropped" or "must obtain permission to continue" status.

## SECOND DEGREE STUDENTS

Students who previously completed a bachelor's degree at the University of Wisconsin–Madison or another institution and are interested in pursuing a second bachelor's degree are considered a second degree student.

Not all programs are able to accept second degree students. Please be sure to review the school and college-specific requirements (<https://admissions.wisc.edu/apply-as-a-second-degree-student/>) to determine if the program you are interested in accepts second degree applicants.

All second degree applicants will receive an initial eligibility review to determine if they are considered a second degree-seeking student based on official college transcripts or academic record (for UW–Madison students).

For more information about admission requirements and expectations of second degree applicants, please see our website (<https://admissions.wisc.edu/apply-as-a-second-degree-student/>).

## NONDEGREE UNIVERSITY SPECIAL AND GUEST STUDENTS

Undergraduate students visiting from other universities or recent UW–Madison graduates may desire to enroll at UW–Madison as nondegree University Special and Guest students. Contact the Division of Continuing Studies, Adult Career and Special Student Services (<http://www.continuingstudies.wisc.edu/advising/>).  
21 North Park Street  
Madison, WI 53715  
608-263-6960  
[advising@dcs.wisc.edu](mailto:advising@dcs.wisc.edu)

## PLACEMENT AND CREDIT BY EXAM

### PLACEMENT TESTS

Each student comes to UW–Madison with a unique set of skills and academic preparation. To assess where each student stands in beginning to meet their General Education Requirements (p. 32), placement tests provide academic advisors with the tools to help determine in which courses students should enroll. Placement tests are required of all incoming freshmen and some transfer students depending on college course work. Other exams such as ACT, SAT, SAT II, TOEFL, Advanced Placement (AP), International Baccalaureate (IB), etc. do not satisfy the requirement of placement tests, however, scores on these exams may assist in appropriate course enrollment advising.

UW Placement tests are developed by faculty and instructional staff from various UW System campuses and led by Testing and Evaluation Services (<https://testing.wisc.edu/>) (T&E). T&E conducts studies to support the development of these tests and effectively uses the results to place incoming students into appropriate levels of English, math, and foreign language.

Outlined below are the situations typical for requiring placement tests. The Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>) determines which placement tests are required. After students are admitted to the University of Wisconsin–Madison, they will receive an email from the Office of Admissions and Recruitment indicating which placement tests are required.

### LANGUAGE PLACEMENT EXAMS

Freshmen who have previous experience in Spanish, French, or German and who plan to take coursework in this language at UW–Madison must take a placement test in that language to qualify and enroll in classes beyond the entry level language course. Previous experience may include native speakers and those who have previous coursework in the language. If you are interested in taking a course in another world language, see the available Departmental Placement Exams below (p. 13). Many programs have a world language requirement. Be sure to review the Guide to determine your degree requirements for world language and consult with your advisor at SOAR. UW–Madison offers language instruction in more than 30 languages.

### FRENCH

Score	Placement Into
0-149	Consult with French Advisor
150-385	FRENCH 101 (First Semester French)
386-475	FRENCH 102 (Second Semester French)

476-560	FRENCH 203 (Third Semester French)
561-715	FRENCH 204 (Fourth Semester French)
716-800	FRENCH 228 (Intermediate Language and Culture)
801-850	Consult with French Advisor

## GERMAN

Score	Placement Into
150-406	GERMAN 101 (First Semester German)
407-466	GERMAN 102 (Second Semester German)
467-536	GERMAN 203 (Third Semester German)
537-616	GERMAN 204 (Fourth Semester German)
617-850	GERMAN 249 (Intermediate German - Speaking and Listening), GERMAN 258 (Intermediate German-Reading), GERMAN 262 (Intermediate German-Writing), or GERMAN 285 (Intermediate Intensive (Honors) German: Language, Culture, Texts)

**Note:** If your score is between 0-149 or 851-999, please consult the German advisor. These scores are not valid and something was entered incorrectly on your record.

## SPANISH

Score	Placement Into
150-420	SPANISH 101 (First Semester Spanish)
421-540	SPANISH 102 (Second Semester Spanish)
541-639	SPANISH 203 (Third Semester Spanish)
640-742	SPANISH 204 (Fourth Semester Spanish)
743-849	SPANISH 226 (Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish)
850	SPANISH 226 (Intermediate Language Practice with Emphasis on Writing and Grammar), or SPANISH 311 (Advanced Language Practice)

**Note:** If your score is between 0-149 or 851-999, please consult the Spanish advisor. These scores are not valid and something was entered incorrectly on your record.

## MATH PLACEMENT EXAMS

This examination is required for students admitted to undergraduate degree granting programs who:

- Are admitted as first-year students
- Are admitted as transfer students and (one of the following):
  - Have not previously completed the UW System math placement exam.
  - Do not have credit for the UW-Madison direct equivalent of MATH 96, MATH 112, MATH 114, MATH 171, MATH 211, MATH 217, MATH 221, MATH 222 or MATH 234.
    - For students who have one of the direct equivalent MATH courses in progress at the time of admission, it is assumed they will complete the course, and they are not asked to take the placement test; if they do not complete or pass the course, they may be required to take the placement test to demonstrate minimum math proficiency.

### NOTES:

- Students must demonstrate minimum math proficiency before they enroll in a Quantitative Reasoning Part A (p. 34) course.

Satisfaction of Quantitative Reasoning Part A from a math course that is transferred in does not automatically exempt students from the UW math placement test.

- MATH 101 equivalents will be converted to MATH 96, and/or will be reviewed by the math department for possible MATH 96.

## MATH PLACEMENT EXAM MATRIX

For more detailed information on math course sequencing and placement, please see the information available on the Math Department website (<https://math.wisc.edu/undergraduate/placement/new-student/>). Students should discuss course selection based on math placement test scores with an advisor if they have any questions.

MFUND	AALG	TAG	Math Course Options	General Education
150-355	150-850	150-850	• MATH 96	
356-465	150-850	150-850	• MATH 96 • MATH 141	
466-850	150-485	150-555	• MATH 112	
466-850	150-485	556-850	• MATH 112 • MATH 114 • MATH 171	
466-850	486-535	150-555	• MATH 114 • MATH 112 • MATH 171	Quantitative Reasoning A satisfied
466-850	486-535	556-850	• MATH 112 • MATH 114 • MATH 171	Quantitative Reasoning A satisfied
466-850	536-850	150-155	• MATH 113 • MATH 211 • MATH 114 • MATH 171	Quantitative Reasoning A satisfied
466-850	536-850	556-820	• MATH 211 • MATH 221	Quantitative Reasoning A satisfied

## ENGLISH PLACEMENT EXAMS

There are two exams used to determine the placement of students into courses focused on development of skills needed for success in college-level communication tasks:

- UW English Placement Test (UWEPT)
- UW-Madison English as a Second Language Assessment Test (MSNESLAT)

### UW ENGLISH PLACEMENT TEST (UWEPT)

The UWEPT is taken by students admitted to undergraduate degree-granting programs who (one of the following):

- Are admitted as first-year students and are not required to take the MSNESLAT (see next section)
- Are admitted as transfer students and are not required to take the MSNESLAT (see next section) and
  - Have not previously completed the UW System English Placement Exam.

- b. Do not have credit for the UW–Madison equivalent of a Communication Part A (p. 33) course.

## English

Score	Placement Into
001-604	Must take Communications A Course
605-850	Communications A requirement satisfied

**Note:** If your score is 0 or between 851-999, please consult your advisor. These scores are not valid and something was entered incorrectly on your record.

## UW–MADISON ENGLISH AS A SECOND LANGUAGE ASSESSMENT TEST (MSNESLAT)

The MSNESLAT is taken by all students who are required to submit a TOEFL or IELTS score for admission to UW–Madison.

The MSNESLAT is designed to evaluate English language proficiency, and to place students into English as a Second Language courses that help students improve skills in the written and spoken English used in academic contexts. Students who take the MSNESLAT and obtain a score that does not exempt them from ESL 118 must satisfy the university's expectation of college-level English language proficiency. This can be done by taking ESL 118 or by achieving a score of exempt on the MSNESLAT.

### English as a Second Language (ESL)

Score	Placement Into
99	Exempt from ESL 118 and Communication A Requirement satisfied
110	ESL 110 (Intensive English as a Second Language)
114	ESL 114 (Intermediate English Language Skills)
115	ESL 115 (Grammar for Academic Use)
116	ESL 116 (Academic Reading and Vocabulary Skills)
117	ESL 117 (Academic Writing I)
118	ESL 118 (Academic Writing II)

**Note:** If your score is between 1-98 or 119-999, please consult your advisor. These scores are not valid and something was entered incorrectly on your record.

## DEPARTMENTAL PLACEMENT EXAM

*This is a summary of the Departmental Placement Exam policy. Click here (<https://policy.wisc.edu/library/UW-1014/>) to view the official policy in its entirety in the UW-Madison Policy Library.*

In cases where a student has acquired knowledge, skills or competencies through experiences that are academic in nature and where there is an equivalent UW-Madison course, a department may offer credit by departmental exam which can then be used to meet course requisites and fulfill degree requirements. However, a student may not need the equivalent course for credit and simply wish to demonstrate competency to take course(s) at a higher level which require that competency. The departmental placement exam is a systematic, documented way that will allow a student to demonstrate the academic knowledge, skills or experience required at a level that replaces the taking of a requisite for-credit course.

Departments must propose and have approved the placement exams they offer. Listed below are approved departmental placement exams.

## CHINESE

Score	Placement Into
10	ASIALANG 101 (First Semester Chinese)
20	ASIALANG 111 (Elementary Chinese II)
30	ASIALANG 102 (Second Semester Chinese)
40	ASIALANG 201 (Third Semester Chinese)
50	ASIALANG 202 (Fourth Semester Chinese)
60	ASIALANG 301 (Fifth Semester Chinese)
70	ASIALANG 302 (Sixth Semester Chinese)

## COMPUTER SCIENCES

Score	Placement Into
10	COMP SCI 200 (Programming I)
20	COMP SCI 300 (Programming II)

## FILIPINO

Score	Placement Into
10	ASIALANG 123 (First Semester Filipino)
30	ASIALANG 124 (Second Semester Filipino)
40	ASIALANG 223 (Third Semester Filipino)
50	ASIALANG 224 (Fourth Semester Filipino)
60	ASIALANG 323 (Fifth Semester Filipino)
70	ASIALANG 324 (Sixth Semester Filipino)

## HINDI

Score	Placement Into
10	ASIALANG 133 (First Semester Hindi)
30	ASIALANG 134 (Second Semester Hindi)
40	ASIALANG 233 (Third Semester Hindi)
50	ASIALANG 234 (Fourth Semester Hindi)
60	ASIALANG 333 (Fifth Semester Hindi)
70	ASIALANG 334 (Sixth Semester Hindi)

## HMONG

Score	Placement Into
10	ASIALANG 125 (First Semester Hmong)
30	ASIALANG 126 (Second Semester Hmong)
40	ASIALANG 225 (Third Semester Hmong)
50	ASIALANG 226 (Fourth Semester Hmong)
60	ASIALANG 325 (Fifth Semester Hmong)
70	ASIALANG 326 (Sixth Semester Hmong)

## INDONESIAN

Score	Placement Into
10	ASIALANG 127 (First Semester Indonesian)
30	ASIALANG 128 (Second Semester Indonesian)
40	ASIALANG 227 (Third Semester Indonesian)
50	ASIALANG 228 (Fourth Semester Indonesian)
60	ASIALANG 348 (Fifth Semester Indonesian)
70	ASIALANG 328 (Sixth Semester Indonesian)
80	ASIALANG 421 (Seventh Semester Asian Language)
90	ASIALANG 422 (Eighth Semester Asian Language)

## JAPANESE

Score	Placement Into
10	ASIALANG 103 (First Semester Japanese)
20	ASIALANG 114 (Second Semester Elementary Japanese)
30	ASIALANG 104 (Second Semester Japanese)
40	ASIALANG 203 (Third Semester Japanese)
50	ASIALANG 204 (Fourth Semester Japanese)
60	ASIALANG 303 (Fifth Semester Japanese)
70	ASIALANG 304 (Sixth Semester Japanese)

## KOREAN

Score	Placement Into
10	ASIALANG 105 (First Semester Korean)
30	ASIALANG 106 (Second Semester Korean)
40	ASIALANG 205 (Third Semester Korean)
50	ASIALANG 206 (Fourth Semester Korean)
60	ASIALANG 305 (Fifth Semester Korean)
70	ASIALANG 306 (Sixth Semester Korean)
80	ASIALANG 405 (Seventh Semester Korean)
90	ASIALANG 406 (Eighth Semester Korean)

## MODERN HEBREW

Score	Placement Into
10	HEBR-MOD 101 (First Semester Hebrew)
20	HEBR-MOD 102 (Second Semester Hebrew)
30	HEBR-MOD 201 (Third Semester Hebrew)
40	HEBR-MOD 202 (Fourth Semester Hebrew)
50	HEBR-MOD/JEWISH 301 (Introduction to Hebrew Literature)
60	HEBR-MOD/JEWISH 302 (Introduction to Hebrew Literature)
70	HEBR-MOD/JEWISH 401 (Topics in Modern Hebrew/Israeli Literature and Culture I)
80	HEBR-MOD/JEWISH 402 (Topics in Modern Hebrew/Israeli Literature and Culture II)

## PIANO

Score	Placement Into
10	MUS PERF 101 (Beginning Class Piano)
20	MUS PERF 102 (Beginning Class Piano)
30	MUS PERF 103 (Elementary Class Piano)
40	MUS PERF 104 (Intermediate Class Piano)

## PERSIAN

Score	Placement Into
10	ASIALANG 137 (First Semester Persian)
30	ASIALANG 138 (Second Semester Persian)
40	ASIALANG 237 (Third Semester Persian)
50	ASIALANG 238 (Fourth Semester Persian)
60	ASIALANG 337 (Fifth Semester Persian)
70	ASIALANG 338 (Sixth Semester Persian)

## THAI

Score	Placement Into
10	ASIALANG 129 (First Semester Thai)
30	ASIALANG 130 (Second Semester Thai)
40	ASIALANG 229 (Third Semester Thai)
50	ASIALANG 230 (Fourth Semester Thai)
60	ASIALANG 329 (Fifth Semester Thai)
70	ASIALANG 330 (Sixth Semester Thai)

## TIBETAN

Score	Placement Into
10	ASIALANG 135 (First Semester Modern Tibetan)
30	ASIALANG 136 (Second Semester Modern Tibetan)
40	ASIALANG 235 (Third Semester Modern Tibetan)
50	ASIALANG 236 (Fourth Semester Modern Tibetan)
60	ASIALANG 335 (Fifth Semester Tibetan)
70	ASIALANG 336 (Sixth Semester Tibetan)

## URDU

Score	Placement Into
10	ASIALANG 139 (First Semester Urdu)
30	ASIALANG 140 (Second Semester Urdu)
40	ASIALANG 239 (Third Semester Urdu)
50	ASIALANG 240 (Fourth Semester Urdu)
60	ASIALANG 339 (Fifth Semester Urdu)
70	ASIALANG 340 (Sixth Semester Urdu)

## VIETNAMESE

Score	Placement Into
10	ASIALANG 131 (First Semester Vietnamese)
30	ASIALANG 132 (Second Semester Vietnamese)
40	ASIALANG 231 (Third Semester Vietnamese)
50	ASIALANG 232 (Fourth Semester Vietnamese)
60	ASIALANG 331 (Fifth Semester Vietnamese)
70	ASIALANG 332 (Sixth Semester Vietnamese)
80	ASIALANG 421 (Seventh Semester Asian Language)
90	ASIALANG 422 (Eighth Semester Asian Language)

## RETROACTIVE LANGUAGE CREDIT

In some schools and colleges at UW–Madison, it is possible to earn retro credits for prior work completed in a foreign language. To earn these credits, students must take a course above the first-semester level on the UW–Madison campus in French, German, Hebrew, Italian, Latin, Portuguese, Spanish, or any other language in which they have some proficiency and the course is also offered on the UW–Madison campus. The course must be designated with the Foreign Language attribute of 2nd, 3rd, 4th, or 5th semester language course and must be the first foreign language course taken by the student after enrolling in the university. Students who take a college-level language course while still in high school may still pursue retro credits at the university.

Students interested in earning retro credits should plan to take the foreign language placement test and consult with the foreign language advisor at SOAR (<http://soar.wisc.edu/>). Students must enroll in the language course

prior to earning 30 degree credits (including credits transferred from other colleges but not including AP, CLEP, IB or retro credits in another language) and earn a grade of B or better. UW–Madison honors retro credits earned at previous UW institutions as long as the student enrolled in the course prior to earning 30 credits and earned a grade of B or better. Native speakers of a language are not eligible to earn retro credits in that language. For more information, see Retroactive Credits (p. 364) in the College of Letters & Science section of the *Guide*.

## ADVANCED PLACEMENT (AP) AND INTERNATIONAL BACCALAUREATE (IB)

Both Advanced Placement (<https://apcentral.collegeboard.org/courses/>) and International Baccalaureate Higher Level (<https://www.ibo.org/programmes/diploma-programme/>) examinations offer the possibility of receiving credits at UW–Madison. Many high schools offer courses through the College Board's Advanced Placement (AP) program or the International Baccalaureate (IB) program. UW–Madison offers degree credit based on a student's performance on the AP and IB exams administered in high schools. (AP and IB exams must be taken before entering UW–Madison.) Students who receive credit for a particular course through AP or IB and take the same course at UW–Madison will not receive degree credit twice; however, the grade in the UW–Madison course will be included in the overall grade point average.

### ADVANCED PLACEMENT (AP) CREDIT TABLES

#### Arts

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Art Studio 2D	3-5	GEN ELCT X12	3			Elementary
Art Studio 3D	3-5	GEN ELCT X12	3			Elementary
Art Studio Drawing Portfolio	3-5	GEN ELCT X12	3			Elementary
Art History	3	HUMNTIES X11	3		Humanities	Elementary
Art History	4-5	ART HIST X14	4		Humanities	Elementary
Music Theory	3-5	MUSIC 151	3		Humanities	Elementary

#### English

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
English Language & Composition	3	ENGL X02	3			Elementary
English Language & Composition	4-5	ENGL X04	3	Communicat A		Elementary
English Literature & Composition	3	LIT X10	3		Literature	Elementary
English Literature & Composition	4-5	ENGL X25	3	Communicat A	Literature	Elementary

### History and Social Sciences

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
African American	3-5	AFROAMER X27	3		Social Science or Humanities	Elementary
Comparative Government and Politics	3	POLI SCI X20	3		Social Science	Elementary
Comparative Government and Politics	4-5	POLI SCI 120	4		Social Science	Elementary
European History	3	GEN ELCT X12	3			Elementary
European History	4-5	HISTORY X13	3			Elementary
Human Geography	3	GEOG X12	3			Elementary
Human Geography	4-5	GEOG X22	3		Social Science	Elementary
Macroeconomics	3	GEN ELCT X12	3			Elementary
Macroeconomics	4-5	ECON 102	4		Social Science	Elementary
Microeconomics	3	GEN ELCT X12	3			Elementary
Microeconomics	4-5	ECON 101	4	Quantitative Reasoning B	Social Science	Elementary
Psychology	3	PSYCH X19	3		Social Science	Elementary
Psychology	4-5	PSYCH 202	3		Social Science	Elementary
United States Government and Politics	3	POLI SCI X20	3		Social Science	Elementary
United States Government and Politics	4-5	POLI SCI 104	4		Social Science	Elementary
United States History	3	GEN ELCT 12	3			Elementary
United States History	4-5	HISTORY X13	3			Elementary
World History: Modern	3	GEN ELCT X12	3			Elementary
World History: Modern	4-5	HISTORY X13	3			Elementary

### Math and Computer Science

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Pre-Calculus	3	MATH X05	3	Quantitative Reasoning A		Elementary
Pre-Calculus	4-5	MATH 114	5	Quantitative Reasoning A		Elementary

Calculus AB and AB Subscore <sup>1</sup>	3	MATH X03	3	Quantitative Reasoning Science A	Intermediate
Calculus AB and AB Subscore <sup>1</sup>	4-5	MATH 221	5	Quantitative Reasoning Science B	Intermediate
Calculus BC <sup>1</sup>	3	MATH X03	3	Quantitative Reasoning Science A	Intermediate
Calculus BC <sup>1</sup>	4-5	MATH 221 and MATH 222	9	Quantitative Reasoning Science B	Intermediate
Computer Science A	3-5	COMP SCI 200	3	Quantitative Reasoning Science B	Elementary
Computer Science Principles	3	GEN ELCT X12	3		Elementary
Computer Science Principles	4-5	COMP SCI/ L I S 102	3	Quantitative Reasoning Science A	Elementary
Statistics	3	STAT X10	3		Elementary
Statistics	4-5	STAT 301	3	Quantitative Reasoning Science B	Intermediate

**Footnotes:**

**1**  
A maximum of 9 credits will be awarded between AP Calculus AB, AB Subscore, and BC.

**Sciences**

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Biology	3	BIO SCI X01	3		Biological Science	Elementary
Biology	4-5	BIOLOGY/ BOTANY/ ZOOLOGY 151	5		Biological Science	Elementary
Chemistry	3	CHEM X15	3		Physical Science	Elementary
Chemistry	4-5	CHEM 103	3		Physical Science	Elementary
Environmental Science	4-5	BIO SCI X12	3		Biological Science	Elementary
Physics 1: Algebra-Based <sup>2</sup>	3	PHYSICS X15	3		Physical Science	Elementary
Physics 1: Algebra-Based <sup>2</sup>	4-5	PHYSICS 103	4	Quantitative Reasoning Science B	Physical Science	Elementary
Physics 2	3	PHYSICS X15	3		Physical Science	Elementary
Physics 2	4-5	PHYSICS 104	4		Physical Science	Elementary
Physics C: Electric and Magnetism <sup>2</sup>	3	PHYSICS X15	3		Physical Science	Elementary
Physics C: Electric and Magnetism <sup>2</sup>	4-5	PHYSICS 208	5		Physical Science	Intermediate
Physics C: Mechanics <sup>2</sup>	3	PHYSICS X15	3		Physical Science	Elementary

Physics C: Mechanics <sup>2</sup>	4-5	PHYSICS 207	5	Quantitative Reasoning Science B	Intermediate
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**Footnotes:**

**2**  
Students may earn credit for either AP Physics 1 & 2 or AP Physics C Electric and Magnetism or Mechanics.

**World Languages and Cultures**

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Chinese Language and Culture	3	ASIALANG X10	2			Elementary
Chinese Language and Culture	4-5	ASIALANG X10	4			Elementary
French Language and Culture	3	FRENCH 203	4			Intermediate
French Language and Culture	4	FRENCH 204	4			Intermediate
French Language and Culture	5	FRENCH 228	4			Intermediate
German Language and Culture	3	GERMAN X13	3			Intermediate
German Language and Culture	4-5	GERMAN 249	3			Intermediate
Italian Language and Culture	3-4	ITALIAN 204	4			Intermediate
Italian Language and Culture	5	ITALIAN 452	4			Intermediate
Japanese Language and Culture	3	ASIALANG X10	2			Elementary
Japanese Language and Culture	4-5	ASIALANG X10	4			Elementary
Latin	3-5	LATIN 103 and LATIN 104	8			Elementary
Spanish Language and Culture	3-4	SPANISH 204	4			Intermediate
Spanish Language and Culture	5	SPANISH 226	3			Advanced
Spanish Literature and Culture	3	SPANISH 204	4			Intermediate
Spanish Literature and Culture	4-5	SPANISH 224	3		Literature	Advanced



## AP Capstone Diploma Program

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Research	3-5	GEN ELCT X10	3		
Seminar	3-5	GEN ELCT X12	3		Elementary

## INTERNATIONAL BACCALAUREATE (IB) CREDIT TABLES

### The Arts

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Film	4-7	GEN ELCT X12	3		Elementary
Music	4-7	MUSIC X14	3		Elementary
Theatre	4-7	THEATRE X11	3		Elementary
Visual Arts	4-7	GEN ELCT X12	3		Elementary

### Extended Essay

Students who receive an IB Diploma with a minimum score of 28 are eligible for 3 additional elective credits.

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Overall Diploma	28-45	HUM X11	3	Humanities	Elementary
Overall Diploma	28-45	NATSCI X11	3	Natural Science	Elementary
Overall Diploma	28-45	SOC ST X11	3	Social Science	Elementary

### Individuals and Societies

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Business Management	4-7	GEN BUS X10	3		
Economics	4-7	ECON 101 and ECON 102	8	Quantitative Reasoning B	Social Science Elementary
Geography	4-7	GEOG 104 and GEOG/ ENVIR ST 127	8		Social Science and Physical Science Elementary
Global Politics	4-7	POLI SCI 120	4		Social Science Elementary
History	4-7	HISTORY X24	6		Social Science Elementary
Information Technology in a Global Society	4-7	COMP SCI X12	3		Elementary
Philosophy	4-7	PHILOS 101	4		Humanities or Social Science Elementary
Psychology	4-7	PSYCH 202	4		Social Science Elementary
Social and Cultural Anthropology	4-7	ANTHRO 104	3	Ethnic Studies	Social Science Elementary

## Language Acquisition

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Chinese B: Mandarin	4-7	ASIAN X16	6		Advanced
English B	4-7	ENGL X02	6		Elementary
French B	4-7	FRENCH X10	6		Advanced
German B	4-7	GERMAN X10	6		Advanced
Indonesian B	4-7	ASIAN X16	6		Advanced
Italian B	4-7	ITALIN X10	6		Advanced
Japanese B	4-7	ASIAN X16	6		Advanced
Korean B	4-7	ASIAN X16	6		Advanced
Latin	4-7	LATIN X12	6	Literature	Advanced
Portuguese B	4-7	PORTUG X10	6		Advanced
Spanish B	4-7	SPANISH X10	6		Advanced

## Mathematics

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Math <sup>1</sup>	4-7	MATH 221	5	Quantitative Reasoning B	Natural Science Intermediate
Math with Further Math <sup>1</sup>	4-7	MATH 221 and MATH 222	9	Quantitative Reasoning B	Natural Science Intermediate
Mathematics Analysis and Approaches	4-7	MATH X03	3	Quantitative Reasoning A	Natural Science Intermediate
Mathematics Analysis and Approaches	5-7	MATH 221	5	Quantitative Reasoning B	Natural Science Intermediate
Mathematics Applications and Interpretation	4-7	MATH X03	3	Quantitative Reasoning A	Natural Science Intermediate
Mathematics Applications and Interpretation	5-7	MATH 211	5	Quantitative Reasoning B	Natural Science Intermediate

1

The Math and Math with Further Math IB exams have been discontinued and are no longer being offered. Credit will still be given for these exams.

## Sciences

Exam/ Subject	Score	Course	Credits General Education	L&S Breadth	L&S Level
Biology	4-7	ZOOLOGY/ BIOLOGY/ BOTANY 151	5		Biological Sciences Elementary
Chemistry	4 or 5	CHEM 103	4		Physical Sciences Elementary
Chemistry	6 or 7	CHEM 103 & CHEM 104	9		Physical Sciences Elementary
Computer Science	4-7	COMP SCI 200	3	Quantitative Reasoning B	Natural Sciences Elementary
Design Technology	4-7	GEN ELCT X12	3		Elementary

Physics	4-7	PHYSICS 103 and PHYSICS 104	8	Quantitative Reasoning B	Physical Science	Elementary
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### Studies in Language and Literature

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Chinese A: Literature	4-7	ASIAN X19	6		Literature	Advanced
Chinese A: Language and Literature	4-7	ASIAN X19	6		Literature	Advance
English A: Literature	4	ENGL X25	3	Communication A	Literature	Elementary
English A: Literature	5-7	ENGL X19 and ENGL X25	6	Communication A	Literature	Elementary
English A: Language and Literature	4	ENGL X25	3	Communication A	Literature	Elementary
English A: Language and Literature	5-7	ENGL X19 and ENGL X25	6	Communication A	Literature	Elementary
French A: Literature	4-7	FRENCH X17	6		Literature	Advanced
French A: Language and Literature	4-7	FRENCH X17	6		Literature	Advanced
German A: Literature	4-7	GERMAN X17	6		Literature	Advanced
German A: Language and Literature	4-7	GERMAN X17	6		Literature	Advanced
Indonesian A: Literature	4-7	ASIAN X19	6		Literature	Advanced
Italian A: Literature	4-7	ITALIAN X16	6		Literature	Advanced
Italian A: Language and Literature	4-7	ITALIAN X16	6		Literature	Advanced
Japanese A: Literature	4-7	ASIAN X19	6		Literature	Advanced
Japanese A: Language and Literature	4-7	ASIAN X19	6		Literature	Advanced
Korean A: Literature	4-7	ASIAN X19	6		Literature	Advanced
Korean A: Language and Literature	4-7	ASIAN X19	6		Literature	Advanced
Portuguese A: Literature	4-7	PORTUG X12	6		Literature	Advanced

Portuguese A: Language and Literature	4-7	PORTUG X12	6		Literature	Advanced
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Spanish A: Literature	4-7	SPANISH X17	6		Literature	Advanced
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Spanish A: Language and Literature	4-7	SPANISH X17	6		Literature	Advanced
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## GCE ADVANCED LEVEL (A-LEVEL)

In many cases, students may receive advanced-standing credit for some A-level exams. After a student has been admitted, the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>) will perform an official evaluation of credit for A-Level exam results. In order to grant the credit, we require an official copy of the A-Level exam certificate from the examination board. Credits will not be posted from Results Slips or internal school transcripts. Examinations not listed in the A-Level table will be evaluated by the Office of Admissions and Recruitment for appropriate advanced standing credit.

### A-LEVEL CREDIT TABLES

#### AQA

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Chemistry	A-D	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry	E	CHEM 103	5		Physical Science	Elementary
Drama & Theatre	A-E	THEATRE X18	4		Literature	Elementary
English Literature	A-E	ENGLISH X19	10		Literature	Elementary
French	A-E	FRENCH 227 and FRENCH 228	10		Literature	Intermediate
German	A-E	GERMAN X19	3		Literature	Intermediate
Physics	A-E	PHYSICS 103 and PHYSICS 104	8	Quantitative Reasoning B	Physical Science	Elementary
Psychology	A-E	PSYCH 202 or PSYCH X15	8		Social Science	Elementary
Statistics	A-E	STAT 301	3	Quantitative Reasoning A	Natural Science	Intermediate

#### Caribbean CAPE

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Biology Unit 2	1-3	BIOLOGY/ BOTANY/ ZOOLOGY 151	5		Biological Science	Elementary
Chemistry Unit 2	1-3	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Computer Science Unit 2	1-3	COMP SCI 368 and COMP SCI X13	4			Intermediate

Economics Unit	1-3	ECON 101 and ECON 102	8	Quantitative Reasoning B	Social Science	Elementary
Pure Math Unit 2	1-3	MATH 114, MATH 221, and MATH 222	14	Quantitative Reasoning A and B	Natural Science	Elementary, Intermediate

### Malaysian STPM

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Accounting			No Credit			
Biology	A-D	ZOOLOGY/ BIOLOGY/ BOTANY 151 and BIOSCI X12	10		Biological Science	Elementary
Chemistry	A-C	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry	D	CHEM 103	4		Physical Science	Elementary
Malay	A-D	ASIAN X12 and ASIAN X13	6		Humanities and Literature	Intermediate
Mathematics T	A-D	MATH 114 and MATH 221	10	Quantitative Reasoning A and B	Natural Science	Elementary and Intermediate

### OCR

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Biology	A-E	BOTANY/ BIOLOGY 130, BIOLOGY/ ZOOLOGY 101, and BIOLOGY/ ZOOLOGY 102	10		Biological Science	Elementary
Chemistry	9	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry	E	CHEM 103	4		Physical Science	Elementary
Mathematics A	A-E	MATH 221	5	Quantitative Reasoning B	Natural Science	Intermediate
Mathematics A, Further	A-E	MATH 222	4	Quantitative Reasoning B	Natural Science	Intermediate
Mathematics B	A-E	MATH 221	5	Quantitative Reasoning B	Natural Science	Intermediate
Mathematics B, Further	A-E	MATH 222	4	Quantitative Reasoning B	Natural Science	Intermediate
Media Studies	A-E	JOURN X14	6			Elementary
Psychology	A-E	PSYCH 202 and PSYCH X15	5	Quantitative Reasoning B	Natural Science	Intermediate
Religious Studies	A-E	RELIG ST X15	3		Humanities	Elementary
Spanish	A-E	SPANISH 204 and SPANISH 226	8			Intermediate

### Singapore Cambridge

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Biology H2	A-E	BOTANY/ BIOLOGY 130, BIOLOGY/ ZOOLOGY 101, and BIOLOGY/ ZOOLOGY 102	10		Biological Science	Elementary
Chemistry H2	A-D	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry H2	E	CHEM 103	4		Physical Science	Elementary
English H2	A-E	ENGL X19	6		Literature	Elementary
Economics H2	A-E	ECON 101 and ECON 102	8	Quantitative Reasoning B	Social Science	Elementary
Further Math H2	A-E	MATH X15	5		Natural Science	Intermediate
Geography H2	A-E	GEOG X18 and GEOG X22	10		Physical Science and Social Science	Elementary
History H2	A-E	HISTORY X29	10		Humanities or Social Science	Elementary
Mathematics H2	A-E	MATH 221	5	Quantitative Reasoning B	Natural Science	Intermediate
Physics H2	A-E	PHYSICS 103 and PHYSICS 104	8	Quantitative Reasoning B	Physical Science	Elementary

### University of Cambridge CIE

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Accounting	A-E	ACCT I S 100	3			
Biology	A-E	BOTANY/ BIOLOGY 130, BIOLOGY/ ZOOLOGY 101, and BIOLOGY/ ZOOLOGY 102	10		Biological Science	Elementary
Chemistry	A-D	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry	E	CHEM 103	4		Physical Science	Elementary
Chinese	A-E	ASIALANG X11	3			Intermediate
Computer Science	A-E	COMP SCI/ L I S 102	3	Quantitative Reasoning A	Natural Science	Elementary
Economics	A-E	ECON 101 and ECON 102	8	Quantitative Reasoning B	Social Science	Elementary
Further Mathematics	A-E	MATH X15	5		Natural Science	Intermediate
Geography	A-E	GEOG X18 and GEOG X22	10		Physical Science and Social Science	Elementary
History	A-E	HISTORY X29	10		Humanities or Social Science	Elementary

Mathematics A-E	MATH 221	5	Quantitative Reasoning B	Natural Science	Intermediate
Physics A-E	PHYSICS 103 and PHYSICS 104	8	Quantitative Reasoning B	Physical Science	Elementary
Psychology A-E	PSYCH 202 and PSYCH X15	8		Social Science	Elementary

### University of London-Edexcel

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
Accounting A-E	A-E	ACCT I S 100	3		Biological Science	Elementary
Biology A-E	A-E	BOTANY/ BIOLOGY 130, BIOLOGY/ ZOOLOGY 101, and BIOLOGY/ ZOOLOGY 102	10		Biological Science	Elementary
Chemistry A-D	A-D	CHEM 103 and CHEM 104	9		Physical Science	Elementary
Chemistry E	E	CHEM 103	4		Physical Science	Elementary
Computer Science			No Credit			
Economics A-E	A-E	ECON 101 and ECON 102	8	Quantitative Reasoning B	Social Science	Elementary
English Literature	A-E	ENGL X19 and ENGL X21	10		Literature	Elementary, Intermediate
Further Mathematics	A-E	MATH X15	5	Quantitative Reasoning B	Natural Science	Intermediate
Geography A-E	A-E	GEOG X18 and GEOG X22	10		Physical Science and Social Science	Elementary
Government and Politics A-E	A-E	POLI SCI X20	4		Social Science	Elementary
History A-E	A-E	HISTORY X29	10		Humanities or Social Science	Elementary
Mathematics A-E	A-E	MATH 221	5	Quantitative Reasoning B	Natural Science	Intermediate
Physics A-E	A-E	PHYSICS 103 and PHYSICS 104	8	Quantitative Reasoning B	Physical Science	Elementary

## COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

The College-Level Examination Program (CLEP) (<https://clep.collegeboard.org/>) allows students who have gained college-level knowledge outside the classroom to take examinations for possible college credit. Each exam is 90 minutes long and is made up primarily of multiple-choice questions. Some exams include an essay; however, UW–Madison does not require the essay for any CLEP exam. Credit will be granted only to those students who have completed fewer than 16 semester hours of college credit when the examinations are taken. Students must earn a minimum score of 65 to receive credit. The scores for awarding credit

at the University of Wisconsin–Madison do not necessarily match those recommended by the American Council on Education.

## COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP CREDIT TABLE)

Exam/Subject	Score	Course	Credits	General Education	L&S Breadth	L&S Level
American Government	65	POLI SCI X20	3		Social Science	Elementary
American Literature	65	ENGL X19	3		Literature	Elementary
Analyzing and Interpreting Literature	65	ENGL X19	3		Literature	Elementary
Biology	65	BIO SCI X12	3		Biological Science	Elementary
Calculus	65	MATH X12	3			Elementary
English Literature	65	ENGL X19	3		Literature	Elementary
Humanities	65	HUMNTIES X11	3		Humanities	Elementary
Principles of Macroeconomics	65	ECON X16	3		Social Science	Elementary
Principles of Microeconomics	65	ECON X16	3		Social Science	Elementary
Natural Sciences	65	NATSCI X11	3		Natural Science	Elementary
Introduction to Psychology	65	PSYCH X19	3		Social Science	Elementary
Social Sciences and History	65	SOC ST X11	3		Social Science	Elementary
Introduction to Sociology	65	SOC X17	3		Social Science	Elementary

## CREDIT BY DEPARTMENTAL EXAMINATION

*This is a summary of the Departmental Credit by Exam policy. Click [here](https://policy.wisc.edu/library/UW-1005/) (<https://policy.wisc.edu/library/UW-1005/>) to view the official policy in its entirety in the UW–Madison Policy Library.*

Students may acquire knowledge, skills, and competencies through experiences that are academic in nature but may not necessarily correspond to a setting in which UW–Madison awards traditional credit. Credit by departmental examination is one opportunity for undergraduate students to demonstrate mastery of material that is equivalent to what would be learned in a specific UW–Madison course. The course credits granted through departmental examination are based on a student's demonstration that they have mastered the learning outcomes equivalent to those for the specified course. Examples of circumstances that will lead students to seek credit by examination may be: they completed preparation for advanced placement exams in high school but were unable to take the AP test; they have placement test scores that place them in a course lower than what they think they are prepared for; they did not get transfer equivalency for a course but they judge that they have completed the material in a course at another university.

Departments must propose and have approved the exams they offer. Listed below are the courses that have been approved for credit by exam.

## ANIMAL AND DAIRY SCIENCE

Code	Title	Credits
AN SCI/DY SCI 101	Introduction to Animal Sciences	3

For more information on how to earn credit by exam for this course, see the exam information (<https://andysci.wisc.edu/animal-science-dairy-science-101-credit-by-exam/>).

## CHEMISTRY

Code	Title	Credits
CHEM 105	General Chemistry I <sup>1</sup>	3
CHEM 106	General Chemistry II <sup>2</sup>	4

For more information on how to earn credit by exam for these courses, see the exam information (<https://chem.wisc.edu/chemistry-credit-by-examination/>).

1

CHEM 101 General Chemistry I Laboratory + CHEM 105 General Chemistry I = CHEM 103 General Chemistry I

2

CHEM 102 General Chemistry II Laboratory + CHEM 106 General Chemistry II = CHEM 104 General Chemistry II

## EDUCATIONAL PSYCHOLOGY

Code	Title	Credits
ED PSYCH 640	Foundations of Instructional Coaching	3

## MATH

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4

For more information on how to earn credit by exam for these courses, see the exam information (<https://www.math.wisc.edu/undergraduate/calculusexam/>).

## MAJORS AND CERTIFICATES

Explore UW-Madison Undergraduate Opportunities (<http://guide.wisc.edu/explore-majors/>)

- American Indian and Indigenous Studies, Certificate (p. 404)
- Animal and Veterinary Biosciences, B.S. (p. 73)
- Animal Sciences, B.S. (p. 79)
- Anthropology, B.A. (p. 407)
- Anthropology, B.S. (p. 412)
- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 1150)
- Applied Social Science, BLS (p. 1112)
- Archaeology, Certificate (p. 417)
- Architecture, Certificate (p. 266)
- Art Education, B.S. (p. 1575)
- Art History, B.A. (p. 420)
- Art History, B.S. (p. 428)
- Art History, Certificate (p. 436)
- Art Studio, Certificate (p. 1583)
- Art, B.S. (p. 1585)
- Art, BFA (p. 1595)
- Arts and Teaching, Certificate (p. 1613)
- Asian American Studies, Certificate (p. 440)
- Asian Languages and Cultures, B.A. (p. 443)
- Asian Languages and Cultures, B.S. (p. 455)
- Astronomy-Physics, B.A. (p. 498)
- Astronomy-Physics, B.S. (p. 502)
- Athletic Healthcare, Certificate (p. 1722)
- Atmospheric and Oceanic Sciences, B.A. (p. 506)
- Atmospheric and Oceanic Sciences, B.S. (p. 511)
- Biochemistry, B.A. (L&S) (p. 1115)
- Biochemistry, B.S. (CALs) (p. 115)
- Biochemistry, B.S. (L&S) (p. 1124)
- Biological Systems Engineering, B.S. (p. 125)
- Biology Core Curriculum Honors, Certificate (p. 534)
- Biology in Engineering for Engineering Majors, Certificate (p. 249)
- Biology, B.A. (L&S) (p. 1025)
- Biology, B.S. (CALs) (p. 91)
- Biology, B.S. (L&S) (p. 1044)
- Biomedical Engineering, B.S. (p. 251)
- Botany, B.A. (p. 536)
- Botany, B.S. (p. 541)
- Business Administration: Human Resources, BBA (p. 1498)
- Business Administration: Management, BBA (p. 1501)
- Business Administration: Marketing, BBA (p. 1519)
- Business Fundamentals, Summer Certificate (p. 1474)
- Business Management for Agricultural and Life Sciences, Certificate (p. 60)
- Business, Certificate (p. 1475)
- Business: Accounting, BBA (p. 1469)
- Business: Actuarial Science, BBA (p. 1537)
- Business: Entrepreneurship, BBA (p. 1504)
- Business: Finance, Investment, and Banking, BBA (p. 1478)
- Business: Human Resource Management, BBA (p. 1504)
- Business: Information Systems, BBA (p. 1525)
- Business: International Business, BBA (p. 1482)
- Business: Management and Human Resources, BBA (p. 1505)
- Accounting, Certificate (p. 1468)
- African American Studies, B.A. (p. 383)
- African American Studies, B.S. (p. 387)
- African American Studies, Certificate (p. 391)
- African Cultural Studies, B.A. (p. 393)
- African Cultural Studies, B.S. (p. 398)
- African Studies, Certificate (p. 896)
- Agricultural and Applied Economics, B.S. (p. 52)
- Agricultural Business Management, B.S. (p. 56)
- Agronomy, B.S. (p. 67)

- Business: Management, BBA (p. 1516)
- Business: Marketing, BBA (p. 1522)
- Business: Operations and Technology Management, BBA (p. 1527)
- Business: Real Estate and Urban Land Economics, BBA (p. 1534)
- Business: Risk Management and Insurance, BBA (p. 1540)
- Business: Supply Chain Management, BBA (p. 1531)
- Cartography and Geographic Information Systems, B.A. (p. 774)
- Cartography and Geographic Information Systems, B.S. (p. 778)
- Chemical Engineering, B.S. (p. 259)
- Chemistry, B.A. (p. 577)
- Chemistry, B.S. (p. 585)
- Chicana/o and Latina/o Studies, B.A. (p. 593)
- Chicana/o and Latina/o Studies, B.S. (p. 597)
- Chicana/o and Latina/o Studies, Certificate (p. 601)
- Chinese Professional Communication, Certificate (p. 467)
- Chinese, B.A. (p. 470)
- Chinese, B.S. (p. 476)
- Civil Engineering, B.S. (p. 267)
- Classical Humanities, B.A. (p. 604)
- Classical Humanities, B.S. (p. 610)
- Classical Studies, Certificate (p. 615)
- Classics, B.A. (p. 617)
- Classics, B.S. (p. 621)
- Communication Arts, B.A. (p. 632)
- Communication Arts, B.S. (p. 644)
- Communication Sciences and Disorders, B.A. (p. 660)
- Communication Sciences and Disorders, B.S. (p. 665)
- Communication Sciences and Disorders, BSE (p. 1617)
- Community and Environmental Sociology, B.S. (p. 136)
- Community and Nonprofit Leadership, B.S. (p. 1793)
- Computer Engineering, B.S. (p. 290)
- Computer Sciences, B.A. (p. 669)
- Computer Sciences, B.S. (p. 674)
- Computer Sciences, Certificate (p. 679)
- Conservation Biology, B.A. (p. 545)
- Conservation Biology, B.S. (p. 552)
- Consulting, Certificate (p. 1476)
- Consumer Behavior and Marketplace Studies, B.S. (p. 1797)
- Consumer Finance and Financial Planning, B.S. (p. 1800)
- Consumer Marketplace Studies, B.S. (p. 1803)
- Criminal Justice, Certificate (p. 559)
- Dairy Science, B.S. (p. 85)
- Dance Studies, Certificate (p. 1679)
- Dance, B.S. (p. 1680)
- Dance, BFA (p. 1686)
- Dance, Certificate (p. 1692)
- Data Science, B.A. (p. 1420)
- Data Science, B.S. (p. 1425)
- Data Science, Certificate (p. 1430)
- Design Strategy, Certificate (p. 1811)
- Development Economics, Certificate (p. 61)
- Digital Cinema Production, Certificate (p. 655)
- Digital Media Analytics, Certificate (p. 1375)
- Digital Studies, Certificate (p. 656)
- Disability Rights and Services, Certificate (p. 1747)
- East Asian Studies, Certificate (p. 900)
- East Central European Languages, Literatures, and Cultures, Certificate (p. 808)
- Economic Analytics, Certificate (p. 683)
- Economics, B.A. (p. 685)
- Economics, B.S. (p. 694)
- Education and Educational Services, Certificate (p. 1720)
- Education Studies, B.S. (p. 1700)
- Educational Policy Studies, Certificate (p. 1707)
- Electrical Engineering, B.S. (p. 296)
- Elementary Education and Special Education, BSE (p. 1748)
- Elementary Education, BSE (p. 1625)
- Engineering Data Analytics, Certificate (p. 311)
- Engineering for Energy Sustainability, Certificate (p. 344)
- Engineering Mechanics, B.S. (p. 324)
- Engineering Physics, B.S. (p. 345)
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## ADVISING

### WHAT IS ADVISING?

At UW–Madison advising is a partnership between students and the network of advisors they build during their time here. Advising is one of the most essential resources available to students and can play a pivotal role in the college experience and beyond. Advisors can help students get the most out of their Wisconsin Experience by helping them make well-informed decisions, sharing strategies for success, supporting them as they encounter challenges, connecting them to resources, and providing information about campus policies and procedures.

There are many reasons to see an advisor and advising is not limited to certain subjects or specific months of the year. Here are some of the many topics that advisors can help students with:

- Setting academic, career, and life goals
- Connecting a major to a career
- Creating a graduation timeline plan
- Selecting courses and fulfilling degree requirements
- Connecting with tutors
- Getting involved with campus organizations
- Practicing for job interviews
- Choosing a study abroad program
- Finding an internship
- Researching volunteer opportunities
- Understanding university policies and deadlines
- Talking about graduate school
- Proofreading resumes and cover letters

To find contact information for advisors, including the assigned advisor, see this link (<https://advising.wisc.edu/find-an-advisor/>).

### SCHOOL AND COLLEGE ACADEMIC ADVISING OFFICES

UW–Madison has eight undergraduate schools and colleges. All undergraduates are assigned to an advisor in their area of academic interest, or to a Cross-College Advising Service advisor who specializes in working with students who are deciding on an academic major.

#### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES (CAL S)

Academic Affairs Office



[cals.wisc.edu/academics/undergraduate-students/advising](http://cals.wisc.edu/academics/undergraduate-students/advising) (<http://cals.wisc.edu/academics/undergraduate-students/advising/>)

## COLLEGE OF ENGINEERING (EGR)

Engineering Academic Advising  
<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>

## COLLEGE OF LETTERS & SCIENCE (L&S)

Academic Advising Services  
[advising.ls.wisc.edu](http://advising.ls.wisc.edu) (<http://advising.ls.wisc.edu>)

## COLLEGE OF LETTERS & SCIENCE, CENTER FOR ACADEMIC EXCELLENCE (CAE)

[cae.ls.wisc.edu](http://cae.ls.wisc.edu) (<http://cae.ls.wisc.edu>)

## COLLEGE OF LETTERS & SCIENCE HONORS PROGRAM

[honors.ls.wisc.edu](http://honors.ls.wisc.edu) (<http://honors.ls.wisc.edu>)  
For honors programs outside of L&S, contact the school/college advising office.

## SCHOOL OF EDUCATION (EDU)

School of Education Student Services  
[education.wisc.edu/soe/academics/undergraduate-students/academic-advising](https://education.wisc.edu/soe/academics/undergraduate-students/academic-advising) (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>)

## SCHOOL OF HUMAN ECOLOGY (SOHE)

Advising and Career Center  
[sohe.wisc.edu/students/advising/](https://sohe.wisc.edu/students/advising/) (<https://sohe.wisc.edu/students/advising/>)

## SCHOOL OF NURSING (NUR)

Academic Programs Office  
<https://students.nursing.wisc.edu/undergraduate-menu/undergraduate-advising/>

## SCHOOL OF PHARMACY (PHRM)

Student & Academic Affairs Office  
<https://students.pharmacy.wisc.edu/student-academic-affairs/sop-advising/>

## SCHOOL OF BUSINESS (BUS)

Undergraduate Academic Advising  
<https://bus.wisc.edu/current-student-resources/bba/academic-support-resources/academic-advising> (<https://bus.wisc.edu/current-student-resources/bba/academic-support-resources/academic-advising/>)

## CROSS-COLLEGE ADVISING SERVICE (CCAS)

The Cross-College Advising Service (CCAS) (<https://ccas.wisc.edu/>) is a campus-wide advising office for undergraduate students who are in the process of deciding on a major and want to explore the many academic opportunities on campus. CCAS also assists students who are considering changing majors or who have not been admitted to limited-enrollment programs and are evaluating other options. CCAS advisors are knowledgeable about all the programs and majors offered by the eight undergraduate schools and colleges on campus. Each year at SOAR

(Student Orientation, Advising, and Registration) (<http://soar.wisc.edu/>), nearly 2000 students in the entering class self-identify as "undecided/exploring" and are assigned to CCAS advisors.

In addition to the main CCAS office in Ingraham Hall, CCAS has residence hall advising offices in Chadbourne Residential College, Witte Hall, Sellery Hall, Ogg Hall, and Dejope Hall. The Dejope office is available to all students in Lakeshore-area residence halls.

## CAREER PLANNING

Career advisors and career planning opportunities at UW-Madison are available to help students answer the question, "Who am I? Who do I want to become? Where am I going and how do I get there?" Career planning can be a multi-year process that includes self-assessment and reflection, exploring academic and career options, gaining experience in areas of interest, and ultimately conducting a job or graduate school search.

Each school or college within UW-Madison has a dedicated career services office and students are encouraged to work with a career advisor during their time at the University. Students who are exploring a variety of major and career paths can work with the Career Exploration Center. Links to each of the campus career services offices are available below and online at [www.careers.wisc.edu](https://www.careers.wisc.edu) (<https://www.careers.wisc.edu>).

Students can work with career services staff to engage in a wide variety of career planning activities, including: individual or group advising, educational workshops, job shadowing, informational interviewing, mock interviews, internships, career fairs, and more.

## HANDSHAKE

Students can find jobs and internships, and connect to campus career centers and events through their free UW-Madison Handshake account. Handshake is available through the MyUW dashboard, and students can activate their free Handshake account now by visiting <https://wisc.joinhandshake.com/>.

## CAREER ADVISING

Students can meet with individual career advisors throughout their undergraduate experience as they explore and navigate their career plans. Career advisors can help students with a variety of areas, including:

- Career exploration and assessment
- Build skills and relevant experiences
- Internship and job search strategies
- How to network
- Connecting with alumni and employers
- Interview preparation and practice
- Job offers and negotiation
- Résumé/cover letter reviews

## CAREER EXPLORATION CENTER (CEC)

The Career Exploration Center (CEC) (<https://cec.ccas.wisc.edu/>) supports undergraduate students who are undecided about their career and/or academic goals. They assist students in gathering information, personal insight, and experiences that help them explore their options and provide direction in planning the next steps in their career journey.

## CAMPUSWIDE

### Career Exploration Center

[cec.ccas.wisc.edu](https://cec.ccas.wisc.edu) (<https://cec.ccas.wisc.edu>)

## SCHOOL AND COLLEGE

### College of Agricultural and Life Sciences (CAL S)

Career Services: [cals.wisc.edu/academics/undergraduate-students/career-services](https://cals.wisc.edu/academics/undergraduate-students/career-services) (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>)

### College of Engineering (EGR)

Engineering Career Services: [ecs.wisc.edu](https://ecs.wisc.edu) (<https://ecs.wisc.edu>)

### College of Letters & Science (L&S)

SuccessWorks at the College of Letters & Science: [successworks.wisc.edu](http://guide.wisc.edu/undergraduate/successworks.wisc.edu) (<http://guide.wisc.edu/undergraduate/successworks.wisc.edu>)

### School of Education (EDU)

Career Center: [careercenter.education.wisc.edu](https://careercenter.education.wisc.edu) (<https://careercenter.education.wisc.edu>)

### School of Human Ecology (SOHE)

Advising & Career Center: [sohe.wisc.edu/students/career-development/](https://sohe.wisc.edu/students/career-development/) (<https://sohe.wisc.edu/students/career-development/>)

### School of Nursing (NUR)

Career Services: [students.nursing.wisc.edu/career-advising/career/](https://students.nursing.wisc.edu/career-advising/career/) (<https://students.nursing.wisc.edu/career-advising/career/>)

### School of Pharmacy (PHRM)

<https://guide.wisc.edu/undergraduate/pharmacy/pharmacy/pharmacology-toxicology-bs/index.html#advisingandcareerstext> (<https://guide.wisc.edu/undergraduate/pharmacy/pharmacy/pharmacology-toxicology-bs/#advisingandcareerstext>)

### School of Business (BUS)

Undergraduate Program Office: <https://business.wisc.edu/undergraduate/careers/>

## PRE-PROFESSIONAL STUDY

At UW-Madison, students interested in pursuing graduate-level health professions and law school have access to specialized Pre-Professional Advising resources. Pre-Professional Advising is made up of two co-located and highly collaborative career advising units: The Center for Pre-Health Advising and the Center for Pre-Law Advising. The units share a joint mission of helping to increase access, equity, and diversity within the fields of health and law.

## CENTER FOR PRE-HEALTH ADVISING

[prehealth.wisc.edu](https://prehealth.wisc.edu) (<https://prehealth.wisc.edu>)

Pre-Health—e.g., Pre-Med/DO, Pre-PA, Pre-OT, Pre-Vet MD—is not an undergraduate major, it is an intention. All new students should plan to enroll in our free, online, and self-paced Canvas Courses: Pre-Health 101 ([https://docs.google.com/forms/d/e/1FAIpQLSdyOgwuvVZ4kpgIKln-1GcHxr2vxtKj1yN\\_aqg9yfQsFLzV6g/viewform/](https://docs.google.com/forms/d/e/1FAIpQLSdyOgwuvVZ4kpgIKln-1GcHxr2vxtKj1yN_aqg9yfQsFLzV6g/viewform/)). Students should major in areas of true interest, meet regularly with their academic advisor(s), and proactively utilize the resources offered by the Center for Pre-Health Advising (CPHA) if they are considering further schooling and careers in the following areas: medicine, dentistry, occupational therapy, physical therapy, physician assistant, public health, chiropractic, optometry, veterinary medicine, or other graduate-level health programs. Students interested in PharmD are strongly encouraged to access advising through the UW School of Pharmacy, due to the many unique aspects of pursuing this degree.

## CENTER FOR PRE-LAW ADVISING

[prelaw.wisc.edu](https://prelaw.wisc.edu) (<https://prelaw.wisc.edu>)

Pre-law is not an undergraduate major, it is an intention. Students should major in areas of true interest, meet regularly with their academic advisor(s), and proactively utilize the resources offered by the Center for Pre-Law Advising (CPLA) for support in considering, preparing for, and applying to law school.

## ADVISING OFFICES AND PROGRAMS

### ADULT CAREER AND SPECIAL STUDENT SERVICES

[acsss.wisc.edu](http://acsss.wisc.edu) (<http://acsss.wisc.edu>)

### CENTER FOR EDUCATIONAL OPPORTUNITY (CEO)

[ceo.wisc.edu](http://ceo.wisc.edu) (<http://ceo.wisc.edu>)

### MERCILE J. LEE SCHOLARS PROGRAM

<https://mjls.wisc.edu>

### INTERNATIONAL STUDENT SERVICES

[iss.wisc.edu](http://iss.wisc.edu) (<http://iss.wisc.edu>)

### NATIVE AMERICAN CENTER FOR HEALTH PROFESSIONS

[med.wisc.edu/education/native-american-center-for-health-professions/](http://med.wisc.edu/education/native-american-center-for-health-professions/) (<http://med.wisc.edu/education/native-american-center-for-health-professions/>)

### OFFICE OF ACADEMIC SERVICES, ATHLETICS

[uwbadgers.com/sports/2015/8/21/GEN\\_201401011.aspx](https://uwbadgers.com/sports/2015/8/21/GEN_201401011.aspx) ([https://uwbadgers.com/sports/2015/8/21/GEN\\_201401011.aspx](https://uwbadgers.com/sports/2015/8/21/GEN_201401011.aspx))

### OFFICE OF MULTICULTURAL ARTS INITIATIVES

[omai.wisc.edu](http://omai.wisc.edu) (<http://omai.wisc.edu>)

### PEOPLE PROGRAM

[peopleprogram.wisc.edu](http://peopleprogram.wisc.edu) (<http://peopleprogram.wisc.edu>)

### TRANSFER TRANSITION PROGRAM

[transfer.wisc.edu/](http://transfer.wisc.edu/) (<http://transfer.wisc.edu/>)

### UNDERGRADUATE ACADEMIC AWARDS OFFICE

[awards.advising.wisc.edu/](http://awards.advising.wisc.edu/) (<http://awards.advising.wisc.edu/>)

## STUDY ABROAD ADVISING SCHOOL/COLLEGE STUDY ABROAD

Several schools and colleges have their own study abroad advising locations and offer information about study abroad programs that are directly related to certain areas of study.

- College of Agricultural and Life Sciences
- College of Engineering
- University of Wisconsin Law School
- School of Business

## INTERNATIONAL ACADEMIC PROGRAMS (IAP)

studyabroad.wisc.edu (<http://studyabroad.wisc.edu>)

International Academic Programs (IAP) offers more than 200 programs on six continents for students of all majors. Courses through IAP programs can count toward degree requirements, allowing students to stay on track for graduation. Scholarships, grants, and financial aid are available.

## INTERNATIONAL INTERNSHIPS

internships.international.wisc.edu (<http://internships.international.wisc.edu>)

The International Internship Program (IIP) works with students of all majors looking to gain experience and explore careers through international internships. Students can intern with organizations around the world. Advising, academic credits, and scholarships are available.

## NON-APPROVED STUDY ABROAD

Students considering participating in a study abroad program sponsored by a university other than UW-Madison should review this page: <https://studyabroad.wisc.edu/nonapproved/> for more information.

## GRADUATING IN FOUR YEARS OR FEWER

UW-Madison encourages, supports, and expects students to work with academic advisors to create, maintain, and plan a graduation timeline. Students should consult with their assigned academic advisor(s) before each enrollment period, and more as needed. Additionally, each major in the Guide includes a four-year plan to help students map out a path to graduation, with help from advisor(s).

To ensure a timely graduation, students should discuss the following topics with their advisor:

- Exploring interests while making progress on degree requirements
- Setting and achieving academic and career goals
- Academic challenges and connecting to resources that support academic success
- Procedures and requirements for declaring a major
- Using the Degree Audit Reporting System (DARS) (<https://registrar.wisc.edu/dars/>) to check progress toward the degree
- Any changes to a declared major, as well as alternative plans if applying to a competitive limited-enrollment program
- A strategic course schedule to stay on track for graduation

## DEGREE AUDIT REPORTING SYSTEM (DARS)

A Degree Audit Reporting System (DARS) (<https://registrar.wisc.edu/dars/>) report is an automated summary of a student's degree progress. All schools and colleges at UW-Madison use DARS to audit the progress of most undergraduate degree programs and certificates.

DARS reports indicate which requirements are completed, which are complete with in-progress and planned courses, and which remain unsatisfied. The report may specify courses that meet unsatisfied requirements. For most undergraduate programs, DARS is the tool used to determine completion of the program and/or eligibility to graduate.

Students can request and review their DARS in the Student Center via MyUW, or through the Course Search & Enroll app, and should contact their assigned advisor(s) for help reading and interpreting their DARS report.

## OFFICER EDUCATION

The Reserve Officers Training Corps (ROTC) prepares students to become commissioned officers in the U.S. Air Force, Army, Navy, or Marines, as well as for civilian careers. Students may be enrolled in ROTC while pursuing a degree at UW-Madison. ROTC courses are open to all undergraduates who have met the prerequisites. The number of ROTC credits that count toward a UW-Madison degree can vary by department and school or college. Prospective and registered students should contact the military program offices listed in this section of the catalog for information about regular course offerings, summer camp programs, and scholarships.

## AIR FORCE ROTC—AEROSPACE STUDIES

The Air Force ROTC (AFROTC) program is the primary path available to enter the U.S. Air Force as an officer. Students enroll in the AFROTC program while working toward the bachelor's degree in **any major** they choose. They attend an aerospace studies class each semester, a hands-on leadership laboratory, and weekly physical fitness sessions, while learning about how the Air Force works and deciding which job fields match their interests. Upon graduating, they enter **active duty** service as second lieutenants, in leadership and management roles in the Air Force.

Most career fields have an active-duty commitment of four years after college. If students choose to separate from the Air Force at that time, they can pursue other careers with experience and the distinction of "military officer" on their resumes.

AFROTC is designed for students with three or more years remaining until graduation. To receive an officer's commission, AFROTC cadets must complete all necessary requirements for a degree as well as courses specified by the Air Force. Courses are often taken for academic credit as part of a student's electives. The amount of credit given toward a degree for AFROTC academic work is determined by the student's school or college, and major department.

## REQUIRED COURSES FOR AIR FORCE ROTC/ AEROSPACE STUDIES

General Military Course, total of 4 credit hours:

Code	Title	Credits
A F AERO 101	Heritage and Values I	1
A F AERO 102	Heritage and Values II	1
A F AERO 201	Team and Leadership Fundamentals I	1

A F AERO 202	Team and Leadership Fundamentals II (General Military Course, total of 4 credit hours:)	1
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### Professional Officer Course, total of 12 credit hours:

Code	Title	Credits
A F AERO 301	Leading People and Effective Communication I	3
A F AERO 302	Leading People and Effective Communication II	3
A F AERO 401	National Security Affairs	3
A F AERO 402	Leadership Responsibilities & Commissioning Preparation	3

Cadets must enroll in A F AERO 501 Leadership Laboratory I every Fall semester and A F AERO 502 Leadership Laboratory II every Spring semester, in addition to their lecture courses, for a total of 8 credit hours.

Scholarships are available to qualified applicants. Scholarships may provide full tuition, laboratory and incidental fees, and reimbursement for textbooks. In addition, scholarship cadets receive a nontaxable allowance ranging from \$300 to \$500 per month, depending on academic/AFROTC year. Juniors and seniors automatically receive \$450 and \$500, respectively.

#### For Participating Students:

Participating students are those who are registered in AF AERO courses but do not seek a commission. Participating students are not cadets, and the following apply:

- Must create a WINGS account; however, students are not required to complete the application for AFROTC membership. Accounts can be created here: [https://wings.holmcenter.com/psp/hcp/LANDING/PORT\\_HCF/c/W\\_ROT.C.W\\_PTL\\_PREScreen.GBL](https://wings.holmcenter.com/psp/hcp/LANDING/PORT_HCF/c/W_ROT.C.W_PTL_PREScreen.GBL)
- May enroll in AFROTC classes for academic course credit only.
- Will not be issued uniforms.
- Will not be included in Detachment Commander's Ranking.
- Are ineligible to compete in any selection program.
- Cannot compete for an Enrollment Allocation (EA), contract, or commission.

All AFROTC courses are open to all students regardless of membership in the program. Students are invited to take one of the program's courses to determine if AFROTC is right for them with no obligation to join. For more information, please contact the Recruiting Officer at 608-262-3440 or 608-265-4812; [afrotc@mailplus.wisc.edu](mailto:afrotc@mailplus.wisc.edu).

## MILITARY SCIENCE—ARMY ROTC

The Army Reserve Officers' Training Corps (ROTC) is the nation's largest leadership and management-development training program. It offers the opportunity to earn a commission as a Second Lieutenant for Active Duty, Army Reserve, or Army National Guard while pursuing an academic degree. It enables young men and women to prepare themselves to be leaders in the Army or the civilian career field of their choice. The traditional four-year Army ROTC Program is divided into a two-year Basic Course and a two-year Advanced Course. A non-contracted student enrolled in the Basic Course does not incur a military service obligation.

## BASIC COURSE

This instruction introduces the student to fundamental military and leadership subjects. It is normally taken over four successive semesters, but may be completed in as few as two semesters. Students should discuss available options with the Scholarship & Enrollment Officer before registering for courses if they have fewer than four semesters to complete the Basic Course.

The regular curriculum consists of a lecture and lab each semester. Freshmen are encouraged to take our class and lab with no military obligation. Students can enroll in a lecture without enrolling in the lab, but cannot enroll in a lab without the corresponding lecture. Labs are intended to provide practical leadership experience and military skills training such as map reading, land navigation, field training, and rifle marksmanship. Additionally, students who start in the Aerospace Studies or Naval Science programs can switch to Military Science and continue on toward graduation with no penalty.

Code	Title	Credits
MIL SCI 101	Foundations of Officership	1
MIL SCI 110	Leadership Lab 1A	1
MIL SCI 102	Basic Leadership	1
MIL SCI 111	Leadership Lab 1B	1
MIL SCI 201	Individual Leadership Studies	2
MIL SCI 210	Leadership Lab 2A	1
MIL SCI 202	Leadership and Teamwork	2
MIL SCI 211	Leadership Lab 2B	1

## ADVANCED COURSE

Students who have completed the Basic Course or an equivalency (see Two-Year Program) and have passed all enrollment eligibility criteria continue on into the Advanced Course. This course consists of the following lectures, leadership labs, a separate military history course, physical fitness training sessions, and a four-week summer camp (Advance Camp) at Fort Knox, Ky. During labs and physical training sessions students are provided practical leadership opportunities to prepare them for Advance Camp and their future military careers. Students normally attend Advance Camp between their junior and senior years of Military Science. Students must complete all components of this course to earn a commission.

Code	Title	Credits
MIL SCI 301	Leadership and Problem Solving	2
MIL SCI 310	Leadership Lab 3A	1
MIL SCI 302	Leadership and Ethics	2
MIL SCI 311	Leadership Lab 3B	1
MIL SCI 401	Leadership and Management	2
MIL SCI 410	Leadership Lab 4A	1
MIL SCI 402	Officership	2
MIL SCI 411	Leadership Lab 4B	1
MIL SCI 491	American Military History	3

## TWO-YEAR PROGRAM

Students who are veterans, members of the Army National Guard/Army Reserve, or who have participated in the Junior Reserve Officers' Training Corps Program in high school may qualify for direct entry into the Advanced Course. Students who did not complete the ROTC Basic Course (see above), to include graduate and doctoral students, but have two years of academic study remaining may be eligible to attend Basic

Camp. This option compresses the Basic Course curriculum into a four-week summer camp held at Fort Knox, KY prior to starting the Advanced Course. Students who believe they qualify for this program should consult with the Scholarship & Enrollment Officer for more information.

## SCHOLARSHIPS

Qualified students may compete for Army ROTC scholarships ranging from two to three years in duration. High school students can apply for a four year scholarship during their senior year of high school. Students must be enrolled and participating in Army ROTC to be eligible for scholarships. Scholarships are merit based and pay full tuition & fees (both in and out-of-state) or room and board (capped at \$5,000/semester) but not both, \$600/semester for textbooks and laboratory expenses, and a tax fee subsistence stipend of \$420 for each month of the regular school year. Interested students should consult with the Scholarship & Enrollment Officer for more detailed information concerning the scholarship eligibility requirements. For additional information about Army ROTC, students may contact Josh Beyerl in the Department of Military Science, 1910 Linden Drive, 608-262-3411, armyrotc@mailplus.wisc.edu.

## NAVAL SCIENCE—NAVAL ROTC MISSION

The Naval ROTC Program was established to develop future officers mentally, morally and physically and to instill in them with the highest ideals of duty, and loyalty, and with the core values of honor, courage and commitment in order to commission college graduates as Naval officers who possess a basic professional background, are motivated toward careers in the Naval service, and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship and government.

## PROGRAM DESCRIPTION

The purpose of the Naval ROTC Program is to educate and train qualified young men and women for service as commissioned officers in the Navy's unrestricted line, and the Marine Corps. As the largest single source of Navy and Marine Corps officers, the Naval ROTC Scholarship Program plays an important role in preparing mature young men and women for leadership and management positions in an increasingly technical Navy and Marine Corps.

Selected applicants for the four-year Naval ROTC Scholarship Program are awarded scholarships through a highly competitive national selection process, and receive full tuition, books stipend, educational fees and other financial benefits. Upon graduation, midshipmen are commissioned as active duty officers in the Navy's unrestricted line or the Marine Corps.

The four-year Naval ROTC Scholarship Program is available to qualified students who graduate from high school before August 1 of the year they intend to start college, and have earned less than 30 credit hours of college-level courses.

Students may affiliate with the Naval ROTC program, with the approval of the Professor of Naval Science, as College Program midshipmen, but receive none of the monetary benefits of scholarship students. College program midshipmen may apply and compete for 3-, 2-, or 1-year NROTC scholarships in each of their freshman, sophomore and junior academic years.

Students selected for the Navy ROTC Scholarship Program make their own arrangements for college enrollment and room and board, and take

the normal course load required by the college or university for degree completion.

Upon graduation, midshipmen who complete all academic requirements in the Navy ROTC program are commissioned as an Ensign in the Navy or a 2<sup>nd</sup> Lieutenant in the Marine Corps and will be required to serve a minimum of five years of active military service. (Additional service requirements may apply for specific service assignments; e.g., pilot, nuclear power officer.)

## PROGRAM REQUIREMENTS

- Complete all requirements for a bachelor's degree.
- Complete specified Naval Science courses:

### Navy Option

Code	Title	Credits
NAV SCI 101	Introduction to Naval Science	2
NAV SCI 102	Seapower-Maritime Affairs	3
NAV SCI 201	Naval Leadership and Management	3
NAV SCI 202	Navigation	3
NAV SCI 301	Naval Engineering	3
NAV SCI 302	Naval Weapons	3
NAV SCI 401	Naval Operations	3
NAV SCI 402	Naval Leadership and Ethics	3

### Marine Option

Code	Title	Credits
NAV SCI 101	Introduction to Naval Science	2
NAV SCI 102	Seapower-Maritime Affairs	3
NAV SCI 201	Naval Leadership and Management	3
NAV SCI 350	Fundamentals of Maneuver Warfare	3
NAV SCI 351	Land Campaigns	3
NAV SCI 402	Naval Leadership and Ethics	3

- In addition (or concurrent) to prescribed undergraduate degree and Naval Science course load, midshipmen must also satisfy these academic requirements:
  - Calculus (two semesters, by end of sophomore year). Not required for Marine option students.
  - Physics (two-semester of calculus-based physics, by end of junior year). Not required for Marine option students.
  - English grammar and composition (two-semester).
  - National Security Policy/American Military Affairs (one-semester).
  - World Culture/Regional Studies (one-semester; certain countries or cultures do not satisfy). Not required for Marine option students.
- Maintain a minimum, cumulative 2.5 GPA.
- Register for, and attend a one credit Naval Science leadership lab each semester (NAV SCI 175 Introductory Naval Laboratory I, NAV SCI 176 Introductory Naval Laboratory II, NAV SCI 275 Elementary Naval Laboratory I, NAV SCI 276 Elementary Naval Laboratory II, NAV SCI 375 Intermediate Naval Laboratory I, NAV SCI 376 Intermediate Naval Laboratory II, NAV SCI 475 Advanced Naval Laboratory I, NAV SCI 476 Advanced Naval Laboratory II)
- Participate in a 4-6-week training period each summer

## SUMMER TRAINING REQUIREMENTS

A significant portion of a midshipman's professional training during their four-year curriculum is received during summer training.

Navy option midshipmen attend summer training, to include Career Orientation and Training for Midshipmen (CORTRAMID) for rising sophomores, and Fleet Exposure Cruises for rising juniors and seniors.

Marine Corps option summer training includes Career Orientation and Training for Midshipmen (CORTRAMID) for rising sophomores, and Fleet Exposure Cruises for rising juniors. All rising senior Marine option midshipmen attend the 6-week Marine Corps Officer Candidates School in Quantico, VA.

Midshipmen must ultimately make decisions as to which warfare area they will request to be commissioned into; CORTRAMID and the various summer training programs are designed to instill awareness of these areas and provide midshipmen with the background necessary to make informed decisions regarding their career choice. Midshipmen select their order of preference of available warfare communities and are ultimately assigned based on their class rank and the needs of the Navy and Marine Corps.

## POSSIBLE SUMMER TRAINING ASSIGNMENTS

- **CORTRAMID:** Midshipmen assigned to this training will travel to a Fleet concentration area on either the East or West coast and spend a week with each of the following warfare communities: surface ship, submarine, aviation, and Marine Corps.
- **Nuclear Power:** Midshipmen can be assigned to a nuclear submarine or aircraft carrier.
- **Ashore Aviation Option:** Selected, qualified midshipmen train with a shore-based Navy aviation squadron, including flight time if feasible.
- **Surface Warfare:** Midshipmen can be assigned to a Navy ship in the United States or in overseas ports.

## PEOPLE

**Air Force ROTC—Aerospace Studies:** Air Force ROTC—Aerospace Studies: Lieutenant Colonel Eric Visger, Professor of Aerospace Studies/ Detachment Commander; Major Angela Ferreira, Assistant Professor of Aerospace Studies/Operations Flight Commander; Captain Kaitlynn Williams, Assistant Professor of Aerospace Studies/Recruiting Officer; Major Jeremy Ware, Assistant Professor of Aerospace Studies/Education Officer.

**Military Science—Army ROTC:** Professor Lieutenant Colonel Cheney; Assistant Professor Captain Schwartz, Assistant Professor; Assistant Professor Captain Ali; Assistant Professor Captain Schultz; Enrollment Officer: Josh Beyerl

**Naval Science—**Professor, CAPT Barnett; Associate Professor, CDR Choquette; Assistant Professors LT Hippe, LT Fox, and Marine Capt. Hoffman. The assistant professors act as undergraduate advisors and may be contacted through the department office.

## CONTACT INFORMATION

### Air Force ROTC—Aerospace Studies

608-262-3440  
1433 Monroe Street, Madison, WI 53711  
<http://www.afrotc.wisc.edu/>

### Military Science—Army ROTC

608-262-3411  
1910 Linden Drive, Madison, WI 53706  
<http://www.badgerrotc.wisc.edu/>

### Naval Science

608-262-3794  
1610 University Avenue, Madison, WI 53726-4086  
<http://nrotc.wisc.edu/>

## WISCONSIN EXPERIENCE

## WISCONSIN EXPERIENCE

The Wisconsin (<https://wisconsinexperience.wisc.edu>) Experience is UW–Madison's vision for the total student experience, which combines learning in and out of the classroom. Tied to the Wisconsin Idea and steeped in our long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

Through the Wisconsin Experience, our students will engage in the following areas of intellectual and personal growth.

### Empathy and Humility

- Develop and demonstrate cultural understanding of self and others
- Engage locally, nationally, and globally in a respectful and civil manner
- Appreciate and celebrate one another's abilities, views, and accomplishments

### Relentless Curiosity

- Actively learn with expert instructors, scholars, and peers
- Engage in creative inquiry, scholarship, and research
- Develop resilience, and foster courage in life and learning

### Intellectual Confidence

- Develop competence, depth, and expertise in a field of study
- Integrate ideas and synthesize knowledge across multiple contexts
- Exercise critical thinking and effective communication

### Purposeful Action

- Apply knowledge and skills to solve problems
- Engage in public service, partner with others, and contribute to community
- Lead for positive change

## STUDENT LEARNING AT UW–MADISON

Student engagement and activism are deeply rooted in UW–Madison's rich history of academic and research excellence. Occasionally, students are expected to help the university better understand and improve student learning by participating in evaluative activities, which include surveys, focus groups, and questionnaires, and by providing examples of their work through presentations, posters, demonstrations, and writing samples. We rely on the student perspective when assessing the effectiveness of academic and co-curricular programs. By participating, students help improve their own educational and related experiences and contribute to better educational experiences for future students.

## ACADEMIC ENRICHMENT AND HONORS PROGRAMS

UW–Madison offers students many ways to enrich their academic program, regardless of the major field of study they choose to pursue. Engaging in research, studying abroad, being part of learning communities, participating in university honors, becoming a student leader, engaging in service learning—these are all vital components that enhance and strengthen classroom learning. This partnership between in- and out-of-classroom learning form the foundation of the *Wisconsin Experience*. The university encourages students to take advantage of opportunities to integrate their learning experiences.

### Honors Programs

Honors programs, which vary slightly among the schools and colleges, are designed for students who wish to undertake work that is more intensive than regular coursework. High grade point averages are required to maintain honors student standing. Students should refer to Honors Programs (<https://teachlearn.provost.wisc.edu/honors-programs/>) for more information including specific school or college programs or to contact an honors advisor.

### Undergraduate Research Opportunities

One of the most exciting things in life is to discover something new. UW–Madison provides unique opportunities to learn from and work with some of the world’s leading researchers and scholars. Options range from assisting with professors’ ongoing research to designing and directing one’s own projects. For many examples, see Undergraduate Research Opportunities (<https://teachlearn.provost.wisc.edu/undergraduate-research/>). The Undergraduate Research Scholars Program (<http://urs.ls.wisc.edu/>) is one opportunity available in the first or second year of study. Students may cap off their undergraduate degree with a senior thesis or senior honors thesis and are encouraged to present their work at the Undergraduate Symposium. For program descriptions, see Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>). For a sampling of the many grants and awards available to support and honor this work, visit the Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>).

### Community-Based Learning

Undergraduates have access to more than 100 community-based learning courses each year. These courses emphasize hands-on experiences that address real-world issues as a venue for educational growth. More information on community-based learning is available at the Morgridge Center for Public Service (<http://morgridge.wisc.edu/>).

### Learning Communities

UW–Madison’s rich tradition of supporting learning communities (<https://www.housing.wisc.edu/residence-halls/learning-communities/>) means that the traditional classroom is not the only place where students learn. Students may choose to participate in any of the many residential and nonresidential learning communities, where students, faculty, and staff work together as both learners and teachers to pursue their academic interests. For more information about residential options, refer to University Housing’s learning communities (<https://www.housing.wisc.edu/residence-halls/learning-communities/>).

## STUDY ABROAD PROGRAMS

Studying abroad extends the boundaries of the classroom to the world. It is an exciting way for students to complement and enhance their on-campus learning while earning meaningful credit toward the major and degree. Each year UW–Madison sends more than 2,000 students on study

abroad programs around the globe, including domestic study away options within the United States.

International Academic Programs (IAP) (<https://www.studyabroad.wisc.edu/>) serves as the central study abroad office on campus, offering more than 200 programs in over 60 countries around the world. IAP program offerings, available to all majors for students at all levels, range from short-term faculty-led opportunities to intensive language study, internships, a semester or a year at a university abroad, service-learning, and programs with special themes. Students can visit the Study Abroad Resource Center, 301 Red Gym, to meet with advisors who can help students prepare and research study abroad options.

Additionally, in partnership with IAP, the College of Agricultural and Life Sciences, the College of Engineering, and the Wisconsin School of Business offer programs geared specifically for their academic disciplines. All approved UW–Madison programs share policies, procedures, and best practices, and are featured on the UW Study Abroad Program Search (<https://studyabroad.wisc.edu/programs/>).

### The Value of Study Abroad

Employers are increasingly looking for workers who not only have technical knowledge, but also “soft skills” such as critical thinking, problem solving, time management, and communication skills deemed necessary for success in a global workforce. Study abroad is one of the best ways students can acquire global skills and stand out to potential employers. Study abroad alumni have better job prospects. Based on a survey conducted by IES Abroad (<http://thepienews.com/news/us-study-abroad-alumni-have-better-job-prospects/>), 90 percent of study abroad alumni found their first job within six months of graduation. In addition to being able to experience new customs, cultures, interests, and food, alumni have reported that study abroad increased their confidence and had a lasting impact on their worldview (<https://www.iesabroad.org/study-abroad/benefits/alumni-survey-results/>).

Regardless of major, students will find that study abroad has much to offer. The variety of program sites and durations (semester, spring break, summer, winter, year) allow students to select programs based on individual academic interests and personal goals and objectives.

### Access and Meaningful Credit for All Majors

In general, credits earned abroad can count toward fulfilling (<https://studyabroad.wisc.edu/academics/>) college and major requirements in any UW–Madison school or college. Seniors in most schools and colleges who complete their major and degree requirements while abroad on a UW–Madison program can graduate at the end of their study abroad program.

Each study program has its own eligibility requirements. Students are encouraged to talk with their academic advisors early in their academic careers about how study abroad can fit into their academic plans and future career goals. We are also working with departments to create Major Advising Pages (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/>) to highlight programs that work best for students’ degree plans.

### Costs and Funding

Students who are thinking about studying abroad or have already decided to do so may be concerned about how they will fund the experience. We frequently hear from students that the program cost is a primary factor in deciding whether they are able to pursue studying abroad. Instead of tuition, students pay a program fee to cover the actual costs of the experience, which is unique to each program. Programs vary widely in cost, so it is likely that we have a program for every budget. Sometimes studying abroad is no more expensive than studying on campus, and other times

the cost can be higher. We work with students to create funding (<https://studyabroad.wisc.edu/funding/>) plans for their time abroad.

Students who study abroad in UW–Madison–sponsored programs may be eligible to use federal financial aid toward the costs of the program. Students should meet with the UW–Madison Office of Student Financial Aid to discuss eligibility requirements. In addition, students can apply for scholarships (<https://www.studyabroad.wisc.edu/scholarships.html>) specifically designated for use with study abroad programs. These include UW–Madison, national, and international scholarship opportunities. Students can also use most campus and academic department scholarships for UW–Madison–sponsored study abroad programs.

### Diversity and Inclusion

Study Abroad staff are committed to providing quality study abroad and domestic study away programs for every UW–Madison student. We work strategically to identify, address, and remove barriers that may prevent participation and to provide a welcoming and inclusive environment for students. Our team actively engages with students, faculty, and staff from diverse backgrounds and prioritizes the continuous development of our knowledge and cultural competence. We also recognize the importance of increasing access to study abroad for historically underrepresented student populations. We are committed to diversity and inclusion so that every student can engage with and understand their identity through a new lens and continue to develop and make progress on their personal, professional, and academic goals.

## REQUIREMENTS FOR UNDERGRADUATE DEGREES

### REQUIREMENTS FOR UNDERGRADUATE DEGREES

*This is a summary of the Requirements for Undergraduate Degrees policy. Click here (<https://policy.wisc.edu/library/UW-1060/>) to view the official policy in its entirety in the UW–Madison Policy Library.*

The University of Wisconsin–Madison sets minimum standards that must be met by all students pursuing an undergraduate degree. The information in the following paragraphs provides general information about study at UW–Madison. Requirements may vary among the schools and colleges, and for specific programs. Students should learn about and understand the specific requirements for their program of study.

### TOTAL DEGREE CREDITS

To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits (which includes AP, IB and other test credit, transfer credit, and retroactive credit). Requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements. Undergraduate Majors (p. 21).

### RESIDENCE CREDIT

Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats, as credits earned in UW–Madison Study Abroad/Study Away programs. Some schools and colleges may have additional requirements concerning

courses taken in residence; students should refer to the specific school or college section of the *Guide* or consult with an advisor.

## UNDERGRADUATE MAJOR DECLARATION

*This is a summary of the Undergraduate Major Declaration policy. Click here (<https://policy.wisc.edu/library/UW-1009/>) to view the official policy in its entirety in the UW–Madison Policy Library.*

Undergraduate degrees at UW–Madison presume that students are completing a program of study that consists of a degree program that combines the requirements for the degree with focused study in a discipline, or that combines school or collegewide requirements with an undergraduate major in which they pursue focused study. All undergraduates are expected to have declared or to have been admitted to their focused area of study by the end of the semester in which they have accumulated 86 credits. Students who have not met this expectation may be prevented from enrolling in future terms until they meet with their advisor. Some schools and colleges have additional requirements governing when majors may be declared; students should refer to the specific school or college section of the *Guide* and consult with an advisor about declaring their major.

## ACADEMIC PROBATION

Undergraduate students must maintain the minimum academic thresholds, including the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## GENERAL EDUCATION REQUIREMENTS

*This is a summary of the General Education Requirements policy. Click here (<https://policy.wisc.edu/library/UW-1059/>) to view the official policy in its entirety in the UW–Madison Policy Library.*

All undergraduate students at UW–Madison must complete the university-wide General Education Requirements, which are designed to convey the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. These requirements provide for breadth across the humanities and arts, social studies, and natural sciences; competence in communication, critical thinking, and analytical skills necessary for success in college and beyond; and investigation of the issues raised by living in a culturally diverse society. This core is intended to provide students with intellectual and practical skills, basic knowledge of human cultures and the physical world, strategies for understanding these topics, and tools intended to contribute to their sense of personal and social responsibility. General Education complements the work students do in their majors and degrees. Together, these requirements help students learn what they need to know not just for making a living, but also for making a life.

Completing the General Education Requirements is an important part of achieving these competencies, and to do so, students choose from many courses in communication, ethnic studies, quantitative reasoning, and breadth of study across disciplines in the natural sciences, humanities, literature, and arts, and social and behavioral sciences.



Each school and college may choose to allow General Education courses to count toward other degree and/or major requirements. Students should always check with their advisors to discuss any additional degree requirements and determine if students are required to take specific General Education courses or to complete the requirements in a particular order. Students should review their Degree Audit (DARS) report to see how they are progressing toward fulfilling the General Education requirements. Please refer to this website (<https://gened.wisc.edu/>) for more information about the requirements.

The university-wide General Education requirements are:

## BREADTH, 13–15 CREDITS, DISTRIBUTED OVER THREE AREAS

All students must complete 13–15 credits of coursework intended to provide a **breadth** of experience across the major modes of academic inquiry. This requirement encourages students to adopt a broad intellectual perspective, to examine the world through investigative, critical, and creative strategies practiced in the natural (computational, biological, and physical) sciences, social and behavioral sciences, as well as in the arts and humanities.

### Learning Outcomes

Students acquire critical and creative thinking skills as well as enhance their problem-solving skills through a breadth of study across the humanities and arts, social studies, computational, biological sciences and physical sciences. In courses satisfying the Breadth requirement, students will:

- Articulate examples of significant contributions to human understanding achieved through various “ways of knowing” found in the arts and humanities; social and behavioral sciences; and computational, biological, and physical sciences
- Recognize and articulate the ways in which different disciplines approach questions that call upon different tools of inquiry, understanding, and creative enterprise
- Identify ways in which multiple tools of inquiry and understanding can be used to achieve greater insight into resolving “big” questions (e.g., climate change, poverty, global health etc.), evaluating the strengths and weaknesses of those approaches, and understanding which complementary approaches will help achieve meaningful change
- Evaluate different modes of inquiry across the humanities and arts; social studies; computational, biological, and physical sciences, and identify strengths and weaknesses of those approaches across disciplines when approaching a question

To achieve these outcomes, students are required to complete courses in the following areas.

- Natural Science, 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Humanities/Literature/Arts, 6 credits
- Social Studies, 3 credits

This requirement challenges students to understand that there are many ways to research, understand, communicate about, and interpret creatively the world around us. These “ways of knowing”

intersect and overlap, and the ideas presented in one area will often inform and transform what students know and how they think about the others. Students develop skills that help them make informed decisions in a wide range of political, economic, and social contexts, to think critically about the world, to better understand their own and others’ experience, and to behave in socially responsible ways. (For more information about how this exposure to breadth of inquiry and expression enriches students’ undergraduate experience and complements intensive study in the major, please see the General Education Requirements (<https://gened.wisc.edu/>) website.)

## COMMUNICATION, 3 TO 5/6 CREDITS

The **Communication** requirement helps to ensure that all graduates of UW–Madison acquire essential communication and research-gathering skills necessary for success in university course work and beyond. Communication–A (**Comm–A**) and Communication–B (**Comm–B**) courses train students to gather and assess information from a variety of sources and to present different kinds of information, insight, and analysis to diverse audiences. These courses are essential for students’ career success and their preparation for public life in a rapidly changing world. While Comm–A courses focus exclusively on essential communication skills, Comm–B courses provide content instruction in a specific discipline and teach research, writing, and communication skills in conjunction with the course content. Comm–B courses are offered by departments across campus and vary widely in topic, content, and format.

### Learning Outcomes

Students develop skills that enable them to be effective communicators in and out of the classroom. In courses satisfying the Communication requirement, students will:

- Make effective use of information retrieved, organized, and synthesized from appropriate sources
- Present ideas and information clearly and logically to achieve a specific purpose
- Make effective use of communicative forms appropriate to a specific discipline and adapted to the intended audience
- Use appropriate style and conventions associated with particular communicative forms, genres or disciplines

To achieve these outcomes, students must complete the following Communication requirements:

### Part A. Literacy Proficiency.

2–3 credits at first-year level dedicated to reading, listening, and discussion, with emphasis on writing. While most incoming freshmen are required to complete coursework to fulfill this requirement, students may be exempted from Part A by approved college course work while in high school, AP test scores, or placement testing. Students are expected to satisfy this requirement by the end of their first year of undergraduate study.

### Learning Outcomes

- Use the four modes of literacy: writing, speaking, reading, and listening to formulate strategies for critical thinking
- Use information-seeking skills to demonstrate the four modes of literacy

**Part B. Enhancing Literacy Proficiency.**

2–3 credits of more advanced coursework for students who have completed or been exempted from Part A. Students should consult with the appropriate undergraduate advisor about when this requirement should be completed. Courses that satisfy this requirement are offered in many fields of study; although a wide variety of courses fulfill this requirement, students are encouraged to select a course most in keeping with their interests or other requirements of their intended field(s) of study.

**Learning Outcomes**

- Identify and make skillful use of relevant, reliable, and high-quality research sources appropriate to the course subject and discipline
- Make productive use of the writing process, including brainstorming, outlining, drafting, incorporating feedback, and revising, to develop a fledgling idea into a formal paper, presentation, and/or project
- Share research, course content, or creative activity in writing and at least one other mode of communication relevant to the discipline. Other modes of communication might include presentations using one or more media, debate, discussion, poster presentations, and other forms of expression that convey course content

**Please note:** Because English is the language of instruction at UW–Madison, Communication A and B courses are taught in English, and student work in them is also completed in English.

**ETHNIC STUDIES, 3 CREDITS**

The **Ethnic Studies** requirement is intended to increase understanding of the culture and contributions of persistently marginalized racial or ethnic groups in the United States, and to equip students to respond constructively to issues connected with our pluralistic society and global community. Because this increased understanding is expected to have a positive effect on campus climate, students are expected to complete this requirement within the first 60 credits of undergraduate study

**Learning Outcomes**

Students draw connections between historical and present day circumstances and consider perceptions and cultural assumptions when examining questions and making decisions. In courses satisfying the Ethnic Studies requirement, students will:

- Articulate how the past has affected present day circumstances regarding race and racial inequities in the U.S.
- Recognize and question cultural assumptions and knowledge claims as they relate to race and ethnicity
- Demonstrate self-awareness and empathy toward the cultural perspectives and worldviews of others
- Apply course concepts to their lives outside the classroom by respectfully participating in our multicultural society

The skills listed above apply to students' lives inside and outside the classroom, and by pursuing these objectives, students will further enhance their ability to participate in a multicultural society more effectively, respectfully, and meaningfully. Students complete

this requirement by taking one course of at least 3 credits that is designated as an Ethnic Studies course.

**QUANTITATIVE REASONING, 3 TO 6 CREDITS**

**Quantitative Reasoning** is the process of forming conclusions, judgments or inferences from quantitative information. The Quantitative Reasoning requirement at UW–Madison has two parts: Part A and B. **Quantitative Reasoning A** courses provide students with skills in mathematics, computer science, statistics or formal logic that are needed for dealing with quantitative information. The acquired skills are broad-based in order to have a positive impact on the readiness of students to take a Quantitative Reasoning B course in a variety of disciplines. **Quantitative Reasoning B** courses allow students to enhance their Quantitative Reasoning Proficiency in a more advanced setting, where they make significant use of quantitative tools in the context of other course material. To ensure timely completion of the undergraduate degree, students must demonstrate minimum math proficiency before they can enroll in a Quantitative Reasoning Part A course. They should complete Part A of the Quantitative Reasoning requirement by the end of their first year, and must complete Part A before they enroll in Part B.

**Quantitative Reasoning Part A:**

An introductory course in college-level mathematics, computer science, statistics, or formal logic that is intended to prepare students for more advanced work in a disciplinary context.

**Learning Outcomes**

- Solve problems using quantitative information and the tools of college-level mathematics, computer science, statistics or formal logic
- Draw conclusions using quantitative information and the tools of college-level mathematics, computer science, statistics or formal logic
- Develop models and/or interpret data and/or devise algorithm using quantitative information and the tools of college-level mathematics, computer science, statistics or formal logic

**Quantitative Reasoning Part A Requirement**

Can be satisfied by approved college work while in high school, AP test scores, placement testing, or taking a 3-credit course at UW–Madison with a Quantitative Reasoning A designation.

**Quantitative Reasoning Part B:**

In the disciplinary or interdisciplinary context of a course designed to build on the tools of college-level mathematics, computer science, statistics, or formal logic.

**Learning Outcomes**

- Manipulate quantitative information to create models, and/or devise solutions to problems using multi-step arguments, based on and supported by quantitative information
- Evaluate models and arguments using quantitative information
- Express and interpret in context models, solutions, and/or arguments using verbal, numerical, graphical, algorithmic, computational or symbolic techniques

**Quantitative Reasoning Part B Requirement**

Can be satisfied by taking a designated QR-B course of at least 3 credits in a variety of fields of study, which enhances

students' proficiency in this domain. Students are encouraged to select a course in keeping with their interests or to satisfy other requirements for their major or degree program.

These grades are included in students' GPA calculations according to school/college GPA rules.

## IDENTIFYING COURSES THAT MEET GENERAL EDUCATION REQUIREMENTS

The university offers hundreds of courses that meet the requirements described above. Students should consider their own interests and check with their advisor when deciding which courses to complete. Please note that many undergraduate programs of study have breadth requirements that go beyond these basic university-wide requirements.

The following language is used in the UW–Madison course listings to indicate how courses count toward satisfying the communication, quantitative reasoning, and ethnic studies portions of the General Education Requirements. Courses that satisfy these requirements are also tagged with a mortarboard (graduate cap) symbol. #

- Communication Part A
- Communication Part B
- Ethnic Studies
- Quantitative Reasoning Part A
- Quantitative Reasoning Part B

Note: Some Communication Part B courses carry Communication B credit only at the lecture or section level and/or only in certain semesters; these courses will be indicated in the Schedule of Classes.

Course descriptions also include information about whether courses meet General Education Humanities, Natural Science, or Social Studies Breadth Requirements. (Click on course numbers in the Guide to see this information.) Students should also be aware that each school and college may, at its own discretion, designate additional courses that satisfy these requirements. For this reason, students should consult their advisors to obtain information about how these requirements are implemented in the school or college in which they are enrolled.

## GENERAL EDUCATION POLICIES

- Only undergraduate-level college courses may satisfy General Education Requirements.
- Directed or Individualized Study may not be used to satisfy General Education Requirements.
- Because these requirements assume that students are engaged in focused study within the designated area of general education, requirements cannot be met with portions of courses.
- Exemption from General Education: All students are required to meet the fundamental degree requirements of the university, which include general education.
- Disability-Based Waivers: The university has determined that waivers to the communication and quantitative reasoning portions of the general education component would fundamentally alter the nature of the University of Wisconsin–Madison degree. Students should not expect to obtain disability-based waivers to the communication and quantitative reasoning portions of the General Education Requirements.
- Pass/Fail: Effective fall 2012, all courses taken to meet the University General Education Requirements must be taken on a graded basis.

## GRADUATING DECLARATION OF INTENT TO GRADUATE

When students expect to graduate, they must indicate their intent by completing the graduation application available in the MyUW Student Center. It is the policy of UW–Madison that all work for the degree must be completed and all degree requirements satisfied before the degree can be conferred.

## CONFERRAL OF DEGREES

When students have been certified as having completed all university general education, degree, and major requirements, the degree will be awarded. When the degree is awarded, a diploma will be issued, listing the degree earned, and the transcript updated to reflect the degree, major, and any other approved academic programs completed. Students who have holds (<https://kb.wisc.edu/helpdesk/page.php?id=4139>) on their records will not receive their diplomas, or be able to order transcripts, until the holds are cleared.

## COMMENCEMENT

Students who wish to attend the spring or winter commencement ceremony must indicate their intent by completing the graduation application available via Student Center in My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO/?execution=e4s1>) by the posted deadline (<https://commencement.wisc.edu/graduate-checklist/>). Students may participate in the commencement ceremony (<https://commencement.wisc.edu/>), in which the chancellor and deans symbolically confer the degrees, even if all degree requirements have not been completed. Neither participation in the ceremony nor listing in the program conveys degree conferral. Students will not receive the diploma or transcript notation until all degree requirements are certified as complete by their respective school or college. Should a student's graduation plans change, updates to the intended term of graduation must be indicated via the graduation application in the MyUW Student Center.

## ENROLLMENT AND RECORDS

The Office of the Registrar (<https://registrar.wisc.edu/>) is responsible for maintaining the academic records of students who attend the University of Wisconsin–Madison and for many services associated with these records, including enrollment and grading. The office is located at:

333 East Campus Mall #11101  
Madison, WI 53715-1384  
[registrar@em.wisc.edu](mailto:registrar@em.wisc.edu)  
608-262-3811

Many student services are available online in the Student Center on My UW–Madison (My UW) (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO/?execution=e2s1>), including viewing grades, ordering transcripts, and updating address and emergency contact information. Students are responsible for the accuracy of the addresses provided in My UW and for the courses selected when they enroll.

My UW is available to eligible students, who gain access by using their Net ID and password. Access to My UW–Madison is available from any device

with Internet access. For further information about My UW–Madison, see DoIT (Division of Information Technology) (<http://it.wisc.edu/>).

## ENROLLMENT

Students enroll for courses, obtain information about deadlines, view their class schedule, and more in the Course Search & Enroll (<http://public.enroll.wisc.edu>) application on My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO/?execution=e3s1>). Information about key deadlines and course enrollment are also available at the Office of the Registrar website (<https://registrar.wisc.edu/>). Additional assistance with the course enrollment process is available by calling 608-262-3811 or emailing registrar@em.wisc.edu.

## GRADING SYSTEM

The general quality of a student's work is expressed in terms of a grade point average (GPA). It is based on the total number of credits taken for which grades of A through F are received. Semester grades are reported by letter only; plus and minus signs are not authorized. The highest possible GPA is 4.0, representing A grades in every course; the lowest possible is 0.0. The following is the official scale of grades at UW–Madison.

### GRADES WITH ASSOCIATED GRADE POINTS PER CREDIT

Grade		Grade Points Per Credit
A	Excellent	4
AB	Intermediate Grade	3.5
B	Good	3
BC	Intermediate Grade	2.5
C	Fair	2
D	Poor	1
F	Failure	0

Excluded from the GPA calculation are:

S or U (Satisfactory or Unsatisfactory) in courses taken on the pass/fail basis.

SD/UD (Satisfactory-Disruption/University Disruption-No Credit): special grading option for students in response to the COVID-19 events.

Cr or N (Credit or No Credit) in courses offered on a credit/no credit basis.

Def (Deferred), Ex (Excused), PE (Permanently Excused), formerly used only for required Physical Education. The Physical Education requirement was discontinued effective August 30, 1976.

DR (Dropped), indicates the course was dropped.

I (IN for Cr/N Courses) (Incomplete), a temporary grade used when work is not completed during a term.

EI (Extended Incomplete), a temporary grade for an extended time limit to remove an Incomplete.

PI (Permanent Incomplete), a permanent grade replacing an Incomplete incurred in a student's last semester in residence and not removed within five years.

NR (No Report), indicates that a grade was not submitted by the instructor. Has no net effect on GPA. Effective Summer 1999.

NW (No Work)... "should be used for students who enroll in a course and then never attend. 'No Work' in this context means that the instructor has no evidence that the student ever attended, in that no course work was ever submitted. Any student who does attend for part of the semester, and then stops participating should be given a grade of 'F' unless there are grounds for assignment of a grade of 'I' (Incomplete)." Fac. Doc. 1028; effective 9/94.

P (Progress), a temporary grade used for courses extending beyond one term. The final grade determines the grade for each term and replaces P grades for the course.

Q (Question on Credits or Honors), a temporary grade used during grade reporting to indicate a credit problem. Should only be used when the student is enrolled for the wrong number of credits or their honors indication is incorrect. A Q grade may be represented on a grade report as "?".

R (Registered), not used after the Summer 1974.

W (Withdraw), indicates the student withdrew from the University while enrolled in the course.

Audited courses, denoted as such by 'AU' in place of a number of credits, are graded either S (Satisfactory) or NR (No Report).

## CREDIT/NO CREDIT COURSES

Some courses are designated as being offered on a Credit/No Credit basis. The transcript for the course will indicate either CR, meaning the student earned the credits for which the course was offered, or N, meaning that the student did not earn any credit even though enrolled for the course. Students may not take such courses on any other basis.

## PASS/FAIL

### POLICY ON USE OF PASS/FAIL GRADING OPTION FOR UNDERGRADUATES

This policy concerns the use of the pass/fail grading option for degree-seeking undergraduate students. According to the UW–Madison grading scale, grades of S (satisfactory) and U (unsatisfactory) are the transcribed grades that are used for what is commonly known as pass/fail. It applies only to courses that use the default A–F grading scale and that also allow students to choose to take a course on a pass/fail (PF) basis.<sup>1</sup>

The instructor enters the letter grade earned by students on the grade roster, and those letter grades are subsequently recorded as a pass (S) or fail (U) on the student record. A pass (S) will be recorded when a letter grade of A through C is earned. A fail (U) will be recorded when a letter grade of D or F is earned. In addition to the S or U notation, the student transcript includes the symbol # for courses that were taken on a pass/fail basis. Neither the S nor the U is used in computing the grade point average. Instructors are not informed that a student has elected to take the course pass/fail.

## STUDENT ELIGIBILITY

Students must be in good academic standing according to their school/college in order to be eligible to request the pass/fail grading option.

Undergraduates may carry one course on a pass/fail basis per term and a maximum of 16 credits during their undergrad career. The summer sessions collectively count as a single term.

Required courses cannot be taken on a pass/fail basis. The student's school or college may review the request to take a course pass/fail and reject requests for nonelective work. It may be difficult for the school or college official to determine whether a course is an elective or being used to fulfill a requirement since a student's enrollment or the way a course is being used in the specific program of study may change. Ultimately it is the student's responsibility to be sure that the requested course is an elective. Students are strongly advised to consult with an academic advisor before taking a course pass/fail. Courses taken on a pass/fail basis will not count for nonelective requirements even if they would normally count toward such requirements.

Each school or college is responsible for clearly communicating to its students what the definition of "good academic standing" is and what a free elective is.

In each school or college, the office responsible for academic policy exceptions is authorized to make exceptions to the pass/fail policy.

## PROCESS FOR REQUESTING THE PASS/FAIL GRADING OPTION

Students indicate that they would like to have a course they are enrolled in graded on a pass/fail basis by completing a course change request via their Student Center (see Course (<https://kb.wisc.edu/registrar/7700/>) [Change Request](#) for detailed information). Students may submit pass/fail requests via their Student Center from the time that they enroll until midnight on the Friday at the end of the fourth week of fall and spring semesters. (For modular and summer session courses, pass/fail requests must be submitted by midnight Friday of the week in which the session is one-fourth completed).

The deadline for requesting the pass/fail grading option is posted on the Office of the Registrar website (<https://registrar.wisc.edu/dates/>). These deadlines are based on the idea that the pass/fail option is intended to encourage students to explore educational opportunities that they might otherwise not be willing to attempt. Pass/fail is not intended as a way for students to avoid academic consequences.

Once the student has submitted the request to take a course on a pass/fail basis the request is routed via Student Information System workflow to an academic dean in the school or college for approval or further communication with the student. The school/college official must approve the request before the grading option is changed to pass/fail by the Office of the Registrar.

Students can see whether a course is being graded on a pass/fail basis in the MyUW Student Center's Academic Records > View Grades section.

<sup>1</sup> For study abroad programs operated by the College of Engineering, courses taken abroad toward an engineering major will be posted as pass/fail. This occurs automatically and is not a student option; this practice is not covered or affected by this policy.

## FAILURES

Every course grade of F counts as 0 grade points and remains permanently on the transcript. If the course is repeated, the original F will remain on the transcript and will be included in computing the GPA.

## INCOMPLETES

An Incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester. If a student is unable to take or complete the final examination because of illness or other circumstances beyond his or her control, the student may be granted an Incomplete. An Incomplete is not given to a student who stays away from a final examination except as indicated above. In the absence of such proof the grade shall be F; even with such proof, if the instructor is convinced that the student cannot pass, the grade shall be F.

Undergraduate students enrolled in the College of Letters & Science must complete the course work for which they received the Incomplete by the end of the fourth week of classes of their next term of enrollment at UW-Madison (exclusive of summer sessions). Failure to do so will result in a lapse into a grade of F, unless the time limit has been formally extended. Letters & Science students should see the L&S section on Incompletes (p. ) for important details.

Undergraduates enrolled in schools or colleges other than Letters & Science must complete the course work for which they received the Incomplete by the end of their next term of enrollment (exclusive of summer sessions). Incompletes incurred in the last term of enrollment may not be removed after five years of absence from the university without special advance permission of the student's associate or assistant dean. Such Incompletes remain on the record permanently but do not lapse into a grade of F.

## AUDIT

Students may audit eligible courses with instructor and academic dean consent, and if no laboratory or performance skills are involved. Auditors may not recite or take examinations but are expected to attend classes regularly and do some assigned work. Although courses for which students enroll as an auditor are factored into tuition, such courses do not earn academic credit and do not count in determining full-time/part-time load for enrollment certification in an academic term. Students initiate a request to audit by completing a course change request via their MyUW Student Center (see Course Change Request (<https://kb.wisc.edu/registrar/7700/>) for detailed information). Students may submit audit requests via their Student Center from the time that they enroll until midnight on the Friday at the end of the fourth week of fall and spring semesters. (For modular and summer session courses, audit requests must be submitted by midnight Friday of the week in which the session is one-fourth completed). School and college policies may vary from this description. Students are advised to consult with the instructor concerning specific course requirements that must be satisfied.

## CLASS STANDING

Students are classified by year according to the number of credits they have earned:

Freshman: fewer than 24 credits  
 Sophomore: 24-53 credits  
 Junior: 54-85 credits  
 Senior: 86 or more credits

## TUITION AND FEES

The UW System Board of Regents sets tuition and fee rates annually. Rates are subject to change without notice.

The tuition and fee schedule is available on the Bursar's Office website (<https://bursar.wisc.edu/tuition-and-fees/>). Students who enroll after the first Friday of the official first week of classes are assessed a late initial enrollment fee. Exception: Special and Guest students have until the Friday of the second week of classes to enroll.

Enrolled students can view account charges/payments, financial aid (loans, grants, scholarships) received, and refunds on their My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO/?execution=e5s1>) Student Center, Financial Account. Students can also access links to view and pay student account eBills, set up Authorized Payers for account access, and enroll for eRefund.

The Bursar's Office provides the student account bill electronically (eBill). The eBill is published on the My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO/?execution=e5s1>) Student Center payment portal. Students and their Authorized Payers receive an email when the eBill is available to view.

For questions about tuition rates, student account activity and billing questions, contact the Bursar's Office.  
tuition@bussvc.wisc.edu (include student ID and name)  
608-262-3611  
333 East Campus Mall #10501  
Madison, WI 53715-1383

## MAKING PAYMENTS

Student Account payment options include making an online ePayment, mailing a check to the Bursar's Office, or placing a check in the first-floor lobby dropbox. For detailed payment information, see Payment Methods (<https://bursar.wisc.edu/student-tuition-account/payment-methods/>) on the Bursar's Office website.

If the balance is not paid by the due date, a late fee is assessed and a hold is placed to prevent future enrollment and release of official transcripts and diplomas, until the account is paid.

## RESIDENCE FOR TUITION PURPOSES

At the University of Wisconsin–Madison, residence for tuition determinations are governed by Wisconsin Statutes 36.27(2). The standards to qualify as a Wisconsin resident are unique to this law and may differ from standards used to determine residency for other purposes, such as voting, paying taxes, obtaining licensures, and other forms of residency. In general, eligibility for resident status requires that an independent student (or the student's parent, if the student is a dependent) must demonstrate bona fide residency in Wisconsin for at least twelve months immediately prior to enrollment for any term. However, the law also states that individuals who come to Wisconsin primarily for educational purposes do not qualify as Wisconsin residents for tuition purposes, even if they meet the remaining eligibility criteria. As a result, students who begin their enrollment as nonresidents usually maintain nonresident status for the duration of their enrollment.

While all individuals who do not demonstrate eligibility under Wisconsin Statutes 36.27(2) will be classified as nonresidents, the law does provide a limited set of exceptions to twelve-month period normally required to establish bona fide residency. These exceptions pertain to some (but not all) individuals who are refugees in Wisconsin, who have certain military or veteran statuses, or who have relocated to Wisconsin for full-time, permanent employment under certain conditions. If you have questions about whether your circumstances might align with the exemptions noted

here, you may wish to contact a residence specialist to discuss your residency further.

For more information and the full text of Wisconsin Statutes, Section 36.27(2), see the Office of the Registrar website (<https://registrar.wisc.edu/residence/>) or contact a residence specialist at 608-262-1355 or [ResidenceForTuition@registrar.wisc.edu](mailto:ResidenceForTuition@registrar.wisc.edu).

Nonresident students who plan to use federal veteran benefits such as the post-9/11 GI Bill may be eligible for resident tuition rates even though they are formally classified as nonresidents of Wisconsin. If you plan to use veteran benefits while enrolled at UW–Madison, you may wish to speak with University Veterans Services at 608-265-4628 or [veterans@wisc.edu](mailto:veterans@wisc.edu) for more information about how to use your military benefits at the University.

## MINNESOTA RECIPROCITY FOR TUITION RATES

Minnesota residents who are certified by the Minnesota Office of Higher Education for the appropriate term to attend UW–Madison under the Minnesota–Wisconsin Tuition Reciprocity Agreement will be assessed the approved reciprocity tuition rate, plus the segregated fees assessed all UW–Madison students. Students under this program will be classified as nonresidents of Wisconsin. Minnesota residents must apply to the Minnesota Office of Higher Education for verification of their eligibility for reciprocity.

It is the student's responsibility to inquire about application procedures, deadline dates, and reapplication procedures. Students may apply online on the Minnesota Office of Higher Education website (<http://www.ohe.state.mn.us/>). Questions may be directed to the Minnesota Office of Higher Education:  
1450 Energy Park Drive, Suite 350  
St. Paul, MN 55108-5227  
651-642-0567 or 1-800-657-3866

They may also be directed to the UW–Madison Office of the Registrar (<https://registrar.wisc.edu/>):  
333 East Campus Mall #11101  
Madison, WI 53715-1384  
[registrar@em.wisc.edu](mailto:registrar@em.wisc.edu)  
608-262-3811

## RULES, RIGHTS, AND RESPONSIBILITIES

### STUDENT PRIVACY RIGHTS (FERPA)

Students have the right to inspect and review most education records maintained about them by the University of Wisconsin–Madison and, in many cases, decide if a third person can obtain information from them. Students may challenge information in their records which they believe to be inaccurate, misleading, or inappropriate.

The university has adopted a policy statement implementing all provisions of the Family Educational Rights and Privacy Act (FERPA). A copy of this statement may be obtained at the Office of the Registrar (<https://registrar.wisc.edu/>), 333 East Campus Mall #11101. The university, in accordance with the act, has designated the following as "directory information," which is publicly available unless a student asks to have

any or all of it withheld: name; postal address; telephone numbers; e-mail addresses; date of birth; major field(s) of study and number of academic credits earned toward degree; attendance status (including current year, credit load, and full- or part-time status); dates of attendance (matriculation and withdrawal dates); degrees and awards received (type of degree and date granted); previously attended educational agencies or institutions; participation in officially recognized activities; and participation in athletics and weight and height of athletes.

Students wishing to keep some or all of their "directory information" confidential should restrict their information in the Student Center in My UW (<https://login.wisc.edu/idp/profile/SAML2/Redirect/SSO?execution=e6s1>). Students with questions about the provisions of the act or who believe the university is not complying with the act may obtain assistance from the Office of the Registrar:

333 East Campus Mall #11101  
Madison, WI 53715-1384  
[reginfo@em.wisc.edu](mailto:reginfo@em.wisc.edu)  
608-262-3811

Students have the right to file complaints alleging university noncompliance with the act with the federal agency that enforces the act. The address is: The Family Educational Rights and Privacy Act (<http://www2.ed.gov/policy/gen/guid/fpco/ferpa/>) Office, Department of Education, 330 Independence Avenue SW, Washington, DC 20201.

Information about the Family Educational Rights and Privacy Act of 1974, as amended, is distributed during Wisconsin Welcome and is available at: Office of the Registrar (<https://registrar.wisc.edu/>)  
333 East Campus Mall #11101  
Madison, WI 53715-1384

## AVAILABILITY OF ACADEMIC RECORD INFORMATION TO PARENTS OR GUARDIANS OR OTHERS

A student may authorize a third party (e.g., a parent, guardian, spouse, potential employer, etc.) access to academic record information. An authorization form is available at the Office of the Registrar's website, or by visiting the Office of the Registrar (<https://registrar.wisc.edu/>), 333 East Campus Mall #11101. The authorization form permits release of specified information on a one-time basis to the specified third party. If no authorization is on file, it will be assumed that the student does not wish to give a third party access to academic record information. This policy is designed to give students specific control over the parties to whom academic record information may be released.

Grade reports will not be sent by the university to parents or guardians. Students are urged to keep their parents informed of their academic progress.

## ACADEMIC INTEGRITY

UW-Madison students are required to conduct their academic work with integrity. Students have due process rights if they are accused of academic misconduct. It is important students:

- be familiar with the rules of academic misconduct (UWS Ch. 14);
- ask their instructors if they are unsure (for example, using sources in a paper or if collaboration with another student is permitted);

- tell your instructors if they see misconduct;
- don't help someone else cheat, it is a violation of the rules

The complete rules and procedures regarding academic integrity, is found in UWS Ch. 14 ([https://docs.legis.wisconsin.gov/code/admin\\_code/uws/14/](https://docs.legis.wisconsin.gov/code/admin_code/uws/14/)). Additional information is on the Office of Student Conduct and Community Standards website (<https://conduct.students.wisc.edu/academic-misconduct/>) or contact the office via phone at 608-263-5701 or [conduct@studentaffairs.wisc.edu](mailto:conduct@studentaffairs.wisc.edu).

## STUDENT RIGHTS AND RESPONSIBILITIES

Every member of the University of Wisconsin-Madison community has the right to conduct their academic and social life in an environment free from threats, danger, or harassment. Students are also responsible for conducting themselves in a manner compatible with membership in the university and local communities.

UWS Chapters 17 and 18 of the Wisconsin Administrative Code list the university policies students are expected to follow and describes the procedures used when students are accused of misconduct, including possible outcomes. Review the complete text of UWS Chapter 17 ([https://docs.legis.wisconsin.gov/code/admin\\_code/uws/17/](https://docs.legis.wisconsin.gov/code/admin_code/uws/17/)); and additional information is on the Office of Student Conduct and Community Standards website (<https://conduct.students.wisc.edu/academic-misconduct/>), or contact the office via phone at 608-263-5701 or [conduct@studentaffairs.wisc.edu](mailto:conduct@studentaffairs.wisc.edu).

## STUDENT GRIEVANCE PROCEDURE

Any student at UW-Madison who feels that they have been treated unfairly has the right to voice a complaint and receive a prompt hearing of the grievance. The basis for a grievance can range from something as subtle as miscommunication to the extreme of harassment.

Each school or college has a procedure to hear grievances. Generally the process involves an informal attempt to solve the problem, if appropriate. If not, more formal proceedings can be undertaken until a resolution is reached. Advisors and school or college offices have detailed information. For assistance in determining options, students can contact the drop-in staff member within the Dean of Students Office at 608-263-5700, within Bascom Hall, Room 70, Monday-Friday, 8:30 a.m.-4 p.m.

## SEEKING ASSISTANCE

The Dean of Students Office (<http://guide.wisc.edu/undergraduate/doso.students.wisc.edu>) assists students with matters outside of the classroom. They assist with a variety of concerns and connecting students with resources on campus. A great place to start when you don't know where to go.

If you need personal assistance or resources, staff members in the Dean of Students Office are available on a drop-in basis, Monday-Friday. Reach out if you are dealing with a financial crisis, sudden health issues, housing/food insecurity, or other sensitive situations.

A student can seek help at many places on campus, for both personal and academic problems. For answers to general questions on many topics, a good place to start is Ask Bucky (<https://info.wisc.edu/ask-bucky/>), which is an excellent general referral service.

For personal concerns, Mental Health Services, a unit of University Health Services (<http://www.uhs.wisc.edu/>), offers individual, group and couple counseling services. Experienced counselors, psychologists, and psychiatrists can assist students in addressing depression and managing anxiety, and in developing self-awareness and understanding, independence, and self-direction. Our experienced staff is committed to understanding and respecting every individual. Mental Health Services is located at 333 East Campus Mall; 608-265-5600. In addition, an on-call dean in Student Assistance and Judicial Affairs is usually available by telephone (608-263-5700) or on a drop-in basis (75 Bascom Hall) Monday–Friday, 8:30 a.m.–4:30 p.m. UHS also offers students at 24/7 crisis line for mental health support. 608-265-5600 (option 9).

For academic problems, many places can offer help. The student should first discuss the problem with the professor or TA. If the problem is not resolved at that time, the student can speak with an academic advisor or the chair of the department. If further assistance is needed, the student should contact one of the academic deans in the school or college.

## STUDENT AFFAIRS

Student Affairs at UW–Madison (<https://students.wisc.edu>) serves students in areas including health and well-being, identity and inclusion, leadership and engagement, and student advocacy. Its multiple departments collaborate broadly across the many programs and campus units that serve students, such as the Division of Diversity, Equity and Educational Achievement (<https://diversity.wisc.edu/>), International Student Services (<https://iss.wisc.edu>), and University Housing (<https://www.housing.wisc.edu/>), to enhance UW–Madison as a welcoming and inclusive community for all students.

## ASSOCIATED STUDENTS OF MADISON (ASM)

4301 Student Activity Center  
333 East Campus Mall  
608-265-4276 (265-4ASM)

Email: [info@asm.wisc.edu](mailto:info@asm.wisc.edu)

Web: [asm.wisc.edu](http://asm.wisc.edu) (<http://asm.wisc.edu>)

Facebook: Associated Students of Madison (<https://www.facebook.com/ASMStudentGov/>)

Twitter: @ASMstudentgovt (<https://twitter.com/search/?q=%40ASMstudentgovt&src=typd>)

Instagram: <https://www.instagram.com/asmstudentgovt/>

- Promotes student voice as it pertains to legislative, diversity, and university affairs
- Distributes funding for student activities, organizations, and events to maximize student involvement in shaping campus life
- Supports elected student representatives
- Serves as the home for student Shared Governance, which ensure that students have a voice in setting and executing campus policies that impact student life
- Supports the Open Seat Food Pantry, which strives to alleviate the stresses of food insecurity for those who need support.
- Provides policy direction to the Student Activity Center, which offers office and meetings space to student organizations
- Distributes the student bus pass every semester, which allows students to take unlimited rides on any Madison Metro bus route, in addition to the free campus bus routes

## CENTER FOR THE FIRST-YEAR EXPERIENCE

155 Middleton Building

1305 Linden Drive

608-263-0367

Web: [newstudent.wisc.edu](http://newstudent.wisc.edu) (<http://newstudent.wisc.edu>)

Facebook: UW First-Year Experience (<https://www.facebook.com/UWNewStudent/>)

Twitter: @UWNewStudent (<https://twitter.com/search/?q=%40UWNewStudent&src=typd>)

Instagram: <https://www.instagram.com/uwnewstudent/>

- Collaborates with campus partners to plan and implement Student Orientation, Advising, and Registration (SOAR) for incoming undergraduates and their families
- Oversees the Transfer Transition Program, which provides support services to new transfer students on campus
- Offers seminar courses on the Wisconsin Experience and provides consultation and support to faculty and graduate students who work with first-year students
- Houses the Parent and Family program, which welcomes parents and family members to UW–Madison so they can encourage and reinforce their student's success

## CENTER FOR LEADERSHIP & INVOLVEMENT

Red Gym

716 Langdon Street

Student Activity Center

3rd & 4th Floors, 333 East Campus Mall

608-263-0365

Email: [cflif@studentlife.wisc.edu](mailto:cflif@studentlife.wisc.edu)

Web: [cflif.wisc.edu](http://cflif.wisc.edu) (<http://cflif.wisc.edu>)

Facebook: UWCfLI (<https://ourwisconsin.students.wisc.edu>)

Twitter: @UWCfLI (<https://twitter.com/uwcfli/>)

Instagram: <https://www.instagram.com/uwcfli/>

- Manages the Student Activity Center (3rd and 4th floors of 333 E. Campus Mall), which offers office and meeting spaces to student organizations.
- Facilitates the registration and advising for more than 1,000 student organizations
- Hosts student organization fairs in fall and spring
- Supports leadership development opportunities, such as the Student Leadership Program, Willis L. Jones Leadership Center, and the Wisconsin Experience Bus Trip.
- Administers the UW–Madison Leadership Certificate

## DEAN OF STUDENTS OFFICE

70 Bascom Hall

500 Lincoln Drive

608-263-5700

Email: [doso@stu](mailto:doso@stu) ([dean@studentlife.wisc.edu](mailto:dean@studentlife.wisc.edu))  
[doso@studentaffairs.wisc.edu](mailto:doso@studentaffairs.wisc.edu)

([doso@studentaffairs.wisc.edu](mailto:doso@studentaffairs.wisc.edu))

Web: <https://www.doso.students.wisc.edu>

- Creates a culture of care so students know the Dean of Students Office is the place to go when you need support



- Connects students who are navigating personal, academic, financial, or health issues, to supportive campus and community resources
- Provides walk-in, email, virtual, and call-in assistance meetings to discuss concerns that students have without judgement
- Supports students who have concerns about their friends and classmates
- Responds to incidents of hate and bias by providing support and resources to those impacted

- Provides information and referral services on disability issues for students, faculty, staff, and campus visitors
- Offers peer education and campus programming around disability issues and inclusive practices

## GENDER & SEXUALITY CAMPUS CENTER

123 Red Gym

716 Langdon Street

Phone: 608-265-3344

Email: [lgbt@studentaffairs.wisc.edu](mailto:lgbt@studentaffairs.wisc.edu)

Web: [lgbt.wisc.edu](http://lgbt.wisc.edu) (<http://lgbt.wisc.edu>)

Facebook: Gender and Sexuality Campus Center (<https://www.facebook.com/uwgscc/>)

Instagram: [@UWGSCC](https://www.instagram.com/uwgscc/) (<http://guide.wisc.edu/undergraduate/instagram.com/uwgscc/>)

- Provides support to LGBTQ+ and ally communities through trainings, workshops, a Discord server, the website, newsletter, and resource library
- Advocates for LGBTQ+ students through policies and procedures including bias reporting, restroom policy, name and pronoun display, RecWell inclusion, and trans health care
- Organizes health and identity courses, a peer mentor program, identity-based discussion groups, and a council of 20+ student organizations
- Coordinates educational and community-building events, including Trans Monologues, Rainbow Graduation, and dozens of recurring programs per semester
- Fosters connections through Crossroads, a suite of programming for LGBTQ+ students of color, and Qouncil, a coalition of 20+ LGBTQ+ student organizations

## MCBURNNEY DISABILITY RESOURCE CENTER

702 West Johnson Street, Suite 2104

608-263-2741

Email: [mcburnney@studentlife.wisc.edu](mailto:mcburnney@studentlife.wisc.edu)

Web: [mcburnney.wisc.edu](http://mcburnney.wisc.edu) (<http://mcburnney.wisc.edu>)

Facebook: McBurnney Disability Resource Center (<https://www.facebook.com/McBurnney-Disability-Resource-Center-1408271469436889/>)

Text: (608) 225-7956

- Promotes accessible, open, and welcoming campus community for students with disabilities
- Works with students with a variety of disabilities such as psychological/mental health, learning, chronic health, ADHD, vision, hearing, mobility, etc
- Develops individualized accommodation plans for students with disabilities and provides classroom accommodations to students with disabilities taking undergraduate, graduate, and professional school courses

## MULTICULTURAL STUDENT CENTER

716 Langdon Street

608-262-4503

Web: [msc.wisc.edu](http://msc.wisc.edu) (<http://msc.wisc.edu/>)

Facebook: UW-Madison Multicultural Student Center (<https://www.facebook.com/UWMulticultural/>)

Instagram: [@UWMulticultural](https://www.instagram.com/UWMulticultural/) (<https://twitter.com/@UWMulticultural/>)

- Provides spaces, services, and events for students of color to find community and belonging
- Celebrates and honors heritage and history through monthly recognitions including Latinx Heritage Month, Native November, Black History Month, and APIDA Heritage month
- Organizes 'MCOR' and 'The Meet Up,' welcome week events featuring cultural performances and multicultural student organizations
- Develops leadership development opportunities for student leaders through the Multicultural Leadership Summit, and student organization affiliation program in which more than 65 multicultural organizations are recognized
- Provides opportunities for students of all backgrounds to engage in conversations and dialogue around racial justice and intersectional communities and issues
- The MSC includes the Black Cultural Center, APIDA (Asian Pacific Islander Desi American) Student Center, Indigenous Student Center, and Latinx Cultural Center. Each identity center hosts events including new student welcomes and graduation celebrations

## OFFICE OF FRATERNITY & SORORITY LIFE

University Club – 432 East Campus Mall

Phone: 608-265-9019

Email: [advisor@greeklife.wisc.edu](mailto:advisor@greeklife.wisc.edu) (<http://guide.wisc.edu/undergraduate/advisor@greeklife.wisc.edu>)

Web: <https://www.fsl.wisc.edu>

Facebook: [facebook.com/FSL.UWMadison](https://www.facebook.com/FSL.UWMadison) (<http://guide.wisc.edu/undergraduate/facebook.com/FSL.UWMadison/>)

Instagram: [instagram.com/fsl\\_uwmadison](https://www.instagram.com/fsl_uwmadison) ([http://guide.wisc.edu/undergraduate/instagram.com/fsl\\_uwmadison/](http://guide.wisc.edu/undergraduate/instagram.com/fsl_uwmadison/))

Twitter: [twitter.com/FSL\\_UWMadison](https://twitter.com/FSL_UWMadison) ([http://guide.wisc.edu/undergraduate/twitter.com/FSL\\_UWMadison/](http://guide.wisc.edu/undergraduate/twitter.com/FSL_UWMadison/))

- Advises more than 40 student leaders who serve in council and community leadership roles
- Provides coaching to 60+ fraternities and sororities
- Plans and implements programming to support the development of members in multiple areas, such as leadership, social justice, and harm prevention
- Reinforces expectations of the fraternal experience and supports a variety of accountability processes.

## OFFICE OF INCLUSION EDUCATION

Office of Inclusion Education  
716 Langdon Street, Office #123  
Email: [inclusioneducation@studentaffairs.wisc.edu](mailto:inclusioneducation@studentaffairs.wisc.edu)  
Web: <http://inclusioneducation.wisc.edu>  
Instagram: [https://www.instagram.com/uw\\_inclusioneducation/](https://www.instagram.com/uw_inclusioneducation/)

The Office of Inclusion Education elevates and prioritizes diversity, equity, and inclusion for all students at UW-Madison. The Office of Inclusion Education includes:

- [Our Wisconsin](#) is an educational program that encourages students to contribute to an inclusive campus community and celebrate each other's backgrounds and identities. Our Wisconsin consists of an online training and additional in-person programming. All incoming first-year and transfer students are required to participate in the online component of Our Wisconsin.
- [Social Justice Education Programs](#) develops resources and facilitates workshops and trainings to support self-exploration, critical dialogue, and the capacity to build just and inclusive communities. Signature programming also includes an annual Social Justice Leadership Retreat (SJLR)
- [The Social Justice Hub](#) connects UW-Madison students to social justice-related initiatives on campus and in the Madison community. The Hub provides space and resources for students to engage in action teams focused on criminal justice reform, housing equity, and food justice.

## OFFICE OF STUDENT CONDUCT AND COMMUNITY STANDARDS

724 West Johnson  
608-263-5701  
Email: [conduct@studentaffairs.wisc.edu](mailto:conduct@studentaffairs.wisc.edu)  
Web: [conduct.students.wisc.edu \(https://www.conduct.students.wisc.edu\)](https://www.conduct.students.wisc.edu)

- Upholds every student's right to learn in a safe community
- Fosters integrity and accountability
- Challenges and supports students to reflect, integrate and act on their Wisconsin Experience
- Partners with instructors to resolve academic misconduct

## UNIVERSITY HEALTH SERVICES (UHS)

333 East Campus Mall  
608-265-5600  
Email: [uhs@uhs.wisc.edu](mailto:uhs@uhs.wisc.edu)  
Web: [uhs.wisc.edu \(https://www.uhs.wisc.edu\)](https://www.uhs.wisc.edu)  
Facebook: <https://www.facebook.com/UHSMadison> (<https://www.facebook.com/UHSMadison/>)  
Twitter: <https://twitter.com/UHSMadison> (<https://twitter.com/UHSMadison/>)  
Instagram: [@uhsamadison \(https://www.instagram.com/uhsamadison/\)](https://www.instagram.com/uhsamadison/)

- Offers comprehensive, high-quality medical, mental health, prevention, and wellness services to UW-Madison students

- Most services are available at no additional charge since students pay for UHS services with their tuition and fees
- Services are designed to meet student health needs, including mental health counseling, health screenings, treatment of common health concerns, support for survivors of sexual assault and students recovering from substance dependence, and more

## UNIVERSITY RECREATION & WELLBEING (REC WELL)

797 W. Dayton Street  
608-262-8244  
Email: [hello@recwell.wisc.edu](mailto:hello@recwell.wisc.edu)  
Web: <https://recwell.wisc.edu>  
Facebook: <https://www.facebook.com/uwrecwell> (<https://www.facebook.com/uwrecwell/>)  
Twitter: <https://twitter.com/UWRecWell> (<https://twitter.com/UWRecWell/>)  
Instagram: [@uwrecwell \(https://www.instagram.com/uwrecwell/\)](https://www.instagram.com/uwrecwell/)

- Motivates students to play hard, get fit, and live well on campus by fostering a culture of healthy habits through inclusive & educational recreational programs and offerings
- All full-time students are already members of Rec Well (funded by segregated fees). This allows unlimited access to our state-of-the-art indoor facilities, outdoor multipurpose fields and courts, cardio/strength equipment, swimming pools and diving well, as well as multi-sport gyms and courts
- Offers a wide variety of programs including intramural sports, sport clubs, group fitness, personal training, wellbeing support, nutrition services, athletic training, lessons (swim, tennis, and ice skating), first aid/CPR/AED certification, and lifeguard training classes
- We provide inclusive and accessible programs to the Madison community and have a variety of accessibility options across our programs, services, and facilities
- Employs over 800 student employees each year in a wide range of program areas, including building operations, member services, human resources, marketing & communications, fitness

## UNIVERSITY VETERAN SERVICES

333 East Campus Mall, Room 10320  
608-265-4628  
Email: [veterans@wisc.edu](mailto:veterans@wisc.edu)  
Web: [veterans.wisc.edu \(https://www.veterans.wisc.edu\)](https://www.veterans.wisc.edu)  
Facebook: [www.facebook.com/uwveterans](http://www.facebook.com/uwveterans) (<http://www.facebook.com/uwveterans/>)  
Instagram: <https://www.instagram.com/uwveterans/>

- Certifies both state and federal military/veteran education benefits, advises students on the use of education benefits, and assists with applying for new benefits
- Develops programming to build community among our military-connected students and campus as a whole
- Educates the greater campus community and act as a resource for faculty/staff
- Supports students called to active duty in accordance with the Active Duty Policy (<https://policy.wisc.edu/library/UW-1034/>)

## Isakson Roe (PL 116-315) Section 1018 Disclosures

- Amounts Covered By VA Education Benefits
- Estimated Cost Of Attendance
- Graduation Rates
- Transfer Credit Rules – Including Military Credit
- Graduate Outcomes
- License And Certifications For Professions

DoD Policies & Tuition Assistance (TA) (<https://veterans.wisc.edu/military-tuition-assistance/>)

## WISCONSIN UNION

Memorial Union  
800 Langdon Street  
Madison, WI 53706  
608-265-3000

Union South  
1308 W. Dayton St.  
Madison, WI 53715  
608-890-3000

Email: [union@union.wisc.edu](mailto:union@union.wisc.edu)

Web: [union.wisc.edu](https://www.union.wisc.edu) (<https://www.union.wisc.edu>)

Facebook: [www.facebook.com/TheWisconsinUnion](https://www.facebook.com/TheWisconsinUnion) (<http://guide.wisc.edu/undergraduate/www.facebook.com/TheWisconsinUnion/>)

Instagram: [www.instagram.com/wisconsinunion](https://www.instagram.com/wisconsinunion) (<http://guide.wisc.edu/undergraduate/www.instagram.com/wisconsinunion/>)

Twitter: [twitter.com/WisconsinUnion](https://twitter.com/WisconsinUnion) (<http://guide.wisc.edu/undergraduate/twitter.com/WisconsinUnion/>)

- Provides student leadership opportunities, including some positions that provide stipends for 60-80% of in-state tuition
- Hosts more than 1,000 mostly-free events each year, including theater performances, live music, art classes, outdoor activities, cuisine-related events, free film showings, talks by thought leaders and much more
- Offers many ways to enjoy and learn about the outdoors through Outdoor UW, including kayak and canoe rentals
- Provides more than 30 dining options at Union South, Memorial Union and satellite cafes and markets throughout downtown Madison
- Provides spaces for studying, relaxing, and dining at the Memorial Union, Union South, the University Club and the seasonally open Memorial Union Terrace
- Offers an in-house open arts studio, called Wheelhouse Studios, with spaces that can be used on a drop-in or reservation basis
- Offers outdoor equipment rentals through Outdoor UW, including camping equipment, climbing equipment, snowshoes (seasonally) and paddling equipment (seasonally)
- Provides indoor climbing, billiards and bowling activities at Sett Recreation at Union South
- Employs more than 1,000 students, who work in more than 70 kinds of jobs throughout the Union's departments

## ACADEMIC CALENDAR

### ACADEMIC CALENDAR

Establishment of the academic calendar (<https://www.secfac.wisc.edu/academic-calendar.htm>) for the University of Wisconsin–Madison falls within the authority of the faculty as set forth in Faculty Policies and Procedures. Construction of the academic calendar is subject to various rules and guidelines prescribed by the Board of Regents, the Faculty Senate and State of Wisconsin legislation. The Faculty Senate approves an academic calendar which spans a future five-year period.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

Students curious to discover how our living world works and how they can improve it—from the smallest microbe to ecosystem-wide weather patterns—will find a home in the College of Agricultural and Life Sciences. Students explore global questions in these five CALS areas of study:

- Health and nutrition
- Food and agriculture
- Biological sciences
- Sustainability, natural resources, and the environment
- Business, communication, and society

CALS brings together students, faculty, and staff from diverse backgrounds to create an enriching and welcoming culture that produces socially aware graduates who will make an impact locally and globally.

CALS students are passionate about using science to improve the world, and CALS programs encourage students to pursue their passions in the classroom and beyond.

CALS students gain critical thinking, research, and communication skills that lead them to careers in a wide variety of industries and public service – including biotechnology, healthcare, food, and agriculture – and prepare them well for graduate and professional studies at top-ranked institutions.

Students in all majors graduate on average in four years.

CALS faculty are involved in all aspects of student education, including teaching in classrooms, hosting research opportunities in labs, leading study abroad experiences, and providing professional mentorship to students.

CALS promotes working across disciplines; half of CALS students double-major or complete at least one certificate (similar to a minor).

As evidence of a strong community, CALS awards over \$1.2 million in scholarships supported by alumni and friends eager to give new students the same positive experiences they enjoyed. These awards are in addition to university scholarships, grants, and loans.

CALS Signature Experiences reflect the core values of a CALS education and offer a variety of options for students in all majors:

**Learn through hands-on, real world experience**

All CALS majors include a senior-level capstone course that integrates interdisciplinary knowledge to address a problem of societal relevance and also helps prepare students for their future careers. Additionally, most students complete independent research under the guidance of internationally recognized faculty researchers.

### Build community and networks

With more than 20 CALS-sponsored student organizations, students can build their professional networks early and enhance their leadership skills. Students also engage with faculty mentors, often for exploration of majors and career pathways.

### Customize a path of study

More than half of CALS students double-major or complete at least one certificate (similar to a minor) to meet their goals and interests. To augment bachelor of science degrees for top students, CALS offers honors programs in research and in many majors.

### Make a strong start

All CALS students take a First-Year Seminar to explore different areas of study, learn about how to access student services, and make friends. There are several seminars to choose from, including QuickStart (<https://cals.wisc.edu/academics/undergraduate/quick-start/>), an online course that allows students to begin their college career the summer before they arrive on campus.

### Gain global perspective

Because CALS disciplines have global reach, students take at least one course with a purposeful international focus, and many students choose to study abroad. CALS offers more than 34 faculty-led study abroad programs specifically designed to fulfill CALS students' academic, professional and personal goals. Additionally, CALS students can choose from more than 250 UW-Madison study abroad programs.

CALS students are growing the future through a better understanding of living things. Explore our majors and certificates (p. 44) to learn more.

## DEGREES/MAJORS/CERTIFICATES

The College of Agricultural and Life Sciences provides opportunities for study in a wide variety of majors. **Students are responsible for knowing academic requirements for graduation** and should consult with an advisor regularly.

First-year students are encouraged to declare a major so that an advisor can be assigned in their area of interest. However, students may change majors if their academic or professional goals change. Incoming or continuing students unsure about which CALS major to declare may opt to remain undecided in CALS while exploring their options. Undecided students are assigned a CALS advisor (<https://cals.wisc.edu/academics/undergraduate-students/advising/>) in the Academic Affairs Office. In addition to their major, students may also elect to complete additional majors or one or more certificate programs.

- Agricultural and Applied Economics, B.S. (p. 52)
- Agricultural Business Management, B.S. (p. 56)
- Agronomy, B.S. (p. 67)
- Animal and Veterinary Biosciences, B.S. (p. 73)
- Animal Sciences, B.S. (p. 79)

- Biochemistry, B.S. (CALS) (p. 115)
- Biological Systems Engineering, B.S. (p. 125)
- Biology, B.S. (CALS) (p. 91)
- Business Management for Agricultural and Life Sciences, Certificate (p. 60)
- Community and Environmental Sociology, B.S. (p. 136)
- Dairy Science, B.S. (p. 85)
- Development Economics, Certificate (p. 61)
- Entomology, B.S. (p. 143)
- Environmental Sciences, B.S. (CALS) (p. 221)
- Food Science, B.S. (p. 160)
- Food Systems, Certificate (p. 141)
- Forest Science, B.S. (p. 166)
- Genetics and Genomics, B.S. (p. 178)
- Global Health, B.S. (p. 148)
- Global Health, Certificate (p. 155)
- Horticulture, B.S. (p. 185)
- Individual Major, B.S. (p. 64)
- Life Sciences Communication, B.S. (p. 192)
- Microbiology, B.S. (CALS) (p. 108)
- Nutritional Sciences, B.S. (p. 200)
- Nutritional Sciences, B.S. Nutrition and Dietetics (p. 206)
- Organic Agriculture, Certificate (p. 212)
- Plant Pathology, B.S. (p. 214)
- Science Communication, Certificate (p. 198)
- Science of Fermented Food and Beverages, Certificate (p. 164)
- Soil Science, B.S. (p. 230)
- Wildlife Ecology, B.S. (p. 172)

## ENTERING THE COLLEGE

### ADMISSION

CALS offers 23 majors in a broad area of topics encompassed within the life sciences and agriculture. Students who know they are interested in CALS areas of study but are uncertain about a specific major may choose "undecided" in CALS to take advantage of all that CALS has to offer students while they explore life science and agricultural science options.

Admissions for incoming first-year and transfer students are handled centrally through the UW-Madison Office of Admissions and Recruitment (<https://admissions.wisc.edu/>). However, through this process students will be directly admitted into CALS if they choose a CALS major, including the CALS undecided option. CALS majors do not have enrollment caps, and most do not have special admissions criteria.

All students, including incoming first-year and transfer students, with questions about study in the College of Agricultural and Life Sciences are encouraged to contact the CALS Office of Academic Affairs at 608-262-3003 or [academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu). Prospective students can also connect with the college and learn more in a variety of other ways, including attending informational sessions, taking a tour, and connecting with student ambassadors.

For students transferring from another university or college, transfer credits are evaluated by the UW-Madison Registrar's Office (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>) after

acceptance. Transfer students must complete all CALS degree requirements, including earning at least 30 credits at UW-Madison.

Students may also transfer to the College of Agricultural and Life Sciences from other schools and colleges at UW-Madison. For more information, contact the academic advisor in your intended major or the CALS Office of Academic Affairs ([academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu)), or visit the CALS transfer information page (<https://cals.wisc.edu/academics/undergraduate/visit-and-apply/transfer-students/>).

## WISCONSIN EXPERIENCE

Opportunities to apply classroom learning to real-world settings is at the core of a CALS education. We offer a variety of CALS Signature Experiences for students in all majors to live the Wisconsin idea and fulfill the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/>).

These opportunities fall into five major categories:

We want our students to **make a strong start** and every CALS first-year student can achieve that through a CALS First-Year seminar to explore different areas of study, learn about how to take advantage of campus resources, and make friends. There are several seminars to choose from, including QuickStart (<https://cals.wisc.edu/academics/undergraduate/quick-start/>), which allows students to begin their college career the summer before they arrive on campus.

CALS students **learn through hands-on, real world experiences**. A majority of CALS students earn credit for research experiences in labs and internships.

Through student organizations, peer advising and mentoring, and residential learning communities, **students build their community and networks**.

Students **gain a global perspective** by taking courses with an international focus and many students choose to study abroad. CALS offers more than 34 faculty-led study abroad programs, and students may also choose from general UW-Madison study abroad opportunities.

Finally, many CALS students take advantage of the ability to **customize their path of study** by participating in an honors program (p. 50), pursuing certificates or second majors, and choosing elective courses that match their interests and meet their goals.

## POLICIES AND REGULATIONS

Policies may be found on the Office of Academic Affairs KnowledgeBase (<https://kb.wisc.edu/cals/academicaffairs/>).

## REQUIREMENTS

All undergraduate students in CALS must satisfy a set of college and university requirements:

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

## COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

Students are advised to complete introductory and basic course requirements (i.e., biological and physical sciences, chemistry, mathematics, communications, etc.) early in their academic programs.

Students must also satisfy a minimum of 15 credits in the selected major (these 15 credits may not be double counted with CALS or General Education requirements) and a Capstone course that meets the stated criteria (and may be included in the 15 credits toward the major).

## CALS FIRST-YEAR SEMINAR REQUIREMENT

**Courses meeting the CALS first-year seminar requirement must meet most of the following criteria:**

- The course is designed specifically for first-year undergraduate students, to support their academic and personal transition to UW–Madison. For example, the course may acquaint students with academic, campus and community resources to assist in their transition through presentations, discussion, projects, or papers. Because students took this course, their transition to UW–Madison is more rapid and well supported.
- Course enrolls fewer than 25 students or a significant portion of the course meets in groups of fewer than 25 students. A larger lecture course will be considered if students interact regularly in sustained and substantive small groups with a faculty member or well-prepared graduate student or peer. This interaction must go beyond review of material and question and answer and be an ongoing relationship.
- Students receive frequent feedback from the instructor(s) on their academic performance and receive a grade in the course.
- Students are put in circumstances that essentially demand they interact with faculty and peers about substantive matters. As a result of taking this course, students have gotten to know their instructor(s) and peers through meaningful course-related dialogue.

- Students will experience diversity through meaningful dialogue with people who are different from themselves and/or engage with diversity through course content which addresses inclusivity, diversity and identity.
- Students experience an integration of experiential and classroom learning. For example, students might be asked to attend a student organization meeting, meet with a faculty or staff member, or participate in research or service.
- Students have opportunities to integrate, synthesize and apply knowledge while exploring big questions and big ideas.
- The learning objectives for the course are aligned with the UW–Madison Essential Learning Outcomes (<https://assessment.provost.wisc.edu/uw-madison-essential-learning-outcomes/>).

## APPROVED FIRST-YEAR SEMINAR COURSES

Code	Title	Credits
AN SCI 135	Grand Challenges and Career Opportunities in Animal and Dairy Sciences	1
BIOCHEM 100	Biochemistry Freshman Seminar	1
BSE 170	Product Design Practicum	2
COUN PSY 125	The Wisconsin Experience Seminar	1
F&W ECOL 101	Orientation to Wildlife Ecology	1
GENETICS 155	Freshman Seminar in Genetics	1
INTEGSCI 100	Exploring Biology	2
INTEGSCI 140	Exploring Service in STEM	1
INTER-AG 155	Issues in Agriculture, Environment, and Life Sciences	1
INTER-AG 165	Introduction to International Issues in Agricultural & Life Sciences	1
INTEREGR 170	Design Practicum	3
INTER-HE 201	Belonging, Purpose and the Ecology of Human Happiness: EcoYou	3
LSC 155	First-Year Seminar in Science Communication	1

### First Year Interest Groups (All) <sup>1</sup>

The following Learning Community/student group courses are approved as CALS First-Year Seminars. Only the specific course numbers and titles listed, including Topics titles (in parentheses), are approved.

AFROAMER 271	Selected Topics in African American Culture (Topic: Multiculturalism & Social Justice (Seminar for Multicultural Learning Community))	3
COUN PSY 115	Human Resources Development: Educational Effectiveness (Topics: First-Year Transition Active Student; PEOPLE First Year Experience Seminar)	1
ENVIR ST 117	GreenHouse Roots Seminar	1
INTEGSCI 110	BioHouse Seminar: Biology for the 21st Century	1
INTER-AG 140	CALS QuickStart: Foundations	1

INTER-AG 175 WISE Seminar 1  
ILS 138

1

For more information, see <http://figs.wisc.edu/>

## CALS INTERNATIONAL STUDIES REQUIREMENT

Required of all CALS majors, the intent of the CALS International Studies requirement is to deepen student knowledge and understanding of international issues related to scientific and sociological themes in CALS; develop openness, awareness and respect with regard to other cultures; and prepare students to address global challenges as engaged employees and active citizens.

The following learning outcomes must be satisfied for courses to fulfill the CALS International Studies requirement:

- Identify and explain, to diverse audiences, global issues pertaining to one or more CALS Priority Themes (<https://cals.wisc.edu/about-cals/initiatives/strategic-plan/priority-themes/>)
- Demonstrate critical thinking and comparative perspectives with respect to experiences or cultural approaches to international challenges

Courses that satisfy the 3-credit CALS International Studies requirement must meet all of the following criteria:

- Be connected to one or more of the CALS Priority Themes
- Include substantial international comparative content
- Include substantial non-U.S. content (typically >50% of the content or assignments or grade in the course)
- Facilitate active student engagement consistent with the learning outcomes and university assessment criteria
- Fulfill 3 credits (either by a single course or a pair of courses)

## APPROVED INTERNATIONAL STUDIES COURSES (EFFECTIVE FALL 2019 UNLESS OTHERWISE NOTED)

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
A A E 352	Global Health: Economics, Natural Systems, and Policy <sup>2</sup>	4
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3

A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON/ INTL BUS 462	Latin American Economic Development	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
AGRONOMY 377	Global Food Production and Health	3
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations <sup>2</sup>	3-4
C&E SOC/SOC 341	Labor in Global Food Systems <sup>1</sup>	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
CSCS 500	Global Health and Communities: From Research to Praxis	3
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
ENTOM/ ENVIR ST 201	Insects and Human Culture—a Survey Course in Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology	3
F&W ECOL/ ENVIR ST 100	Forests of the World <sup>1</sup>	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
HORT 370	World Vegetable Crops	3
LSC 251	Science, Media and Society <sup>1</sup>	3
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3
PL PATH/ BOTANY 123	Plants, Parasites, and People	3
PL PATH 311	Global Food Security	3
HORT/ AGRONOMY 376 & HORT 378	Tropical Horticultural Systems and Tropical Horticultural Systems International Field Study	4
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472 & DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 473	Animal Agriculture and Global Sustainable Development and International Field Study in Animal Agriculture and Sustainable Development	3
The following study abroad courses fulfill the CALS International Studies requirement. Only the specific course numbers and titles listed, including Topics titles (in parentheses), are approved to meet the CALS International Studies requirement.		
BIOCHEM 699	Special Problems (UW SCORE Cambridge International Research Program (England))	3
BIOCHEM 699	Special Problems (UW SCORE Oxford International Research Program (England))	3

BIOCHEM 699	Special Problems (UW SUPERG International Research Program (Germany))	3
NUTR SCI/INTER-AG 421	Global Health Field Experience (UW Mobile Clinics and Health Care in Uganda)	3
INTER-AG 321 & INTER-AG/NUTR SCI 421	Study Abroad Pre-Departure Seminar and Global Health Field Experience (UW Global Health Community Health and Asset-Based Community Development in Sri Lanka)	3
INTER-AG/NUTR SCI 421	Global Health Field Experience (UW Health and Food Systems: Human, Agricultural & Environmental Health in Ghana)	3
INTER-AG 321 & INTER-AG/NUTR SCI 421	Study Abroad Pre-Departure Seminar and Global Health Field Experience (UW Agriculture, Health and Nutrition in Uganda)	3
INTER-AG/NUTR SCI 421	Global Health Field Experience (UW Health, Education and Tanzanian Culture)	3
INTER-AG 321 & INTER-AG/NUTR SCI 421	Study Abroad Pre-Departure Seminar and Global Health Field Experience (UW Microbiology and Public Health in Northern Thailand)	3
MICROBIO 399	Coordinative Internship/ Cooperative Education (UW Microbiology International Internships (Thailand))	3

1

Approved for enrollments Summer 2020 and later.

2

Approved for enrollments Summer 2021 and later.

## CALS CAPSTONE LEARNING LEARNING EXPERIENCE REQUIREMENT

A CALS Capstone is a course in which students are required to integrate diverse bodies of knowledge to solve a problem or formulate a policy of societal importance with the intent of facilitating the transition to post-baccalaureate life. Capstone courses are approved by the college for each major.

A Capstone Experience should:

- Develop problem solving skills
- Expose the student to multidisciplinary approach
- Develop teamwork and interpersonal skills, including the ability to communicate effectively to multiple audiences
- Develop skills in accessing and using information resources (e.g., electronic databases, library resources, national repositories)
- Address societal, economic, ethical, scientific, and professional issues

- Communicate and extend the capstone experience via written, oral, and/or multimedia reports by each student

The Capstone Experience will normally be completed during the student's final 2 or 3 semesters. The intent is to have the student utilize and integrate their undergraduate learning into a culminating, or capstone, experience. Students should consult with their departmental faculty advisors for specific information regarding this requirement. Where appropriate, students should submit a copy of the final project materials to the campus library (via Minds@UW (<https://www.library.wisc.edu/research-support/minds/>) or similar).

## DEGREES OFFERED

The College of Agricultural and Life Sciences offers four bachelor of science (B.S.) degree programs:

### B.S. DEGREE

**B.S.–AGRICULTURAL BUSINESS MANAGEMENT (P. 56)**

**B.S.–BIOLOGICAL SYSTEMS ENGINEERING (P. 125)**

**B.S.– NUTRITION AND DIETETICS (P. 206)**

Three of the college's majors have specialized B.S. degree programs, as listed above. The general B.S. degree program provides a broad and general foundation for the other majors in the college.

## MULTIPLE DEGREES OR MAJORS

Under certain circumstances it may be possible for a student to earn more than one undergraduate major or degree. It is expected that the programs be significantly different from each other and that approval for simultaneous majors or degrees be received prior to the student having earned 86 credits. More information is available below and through the CALS Office of Academic Affairs (<https://cals.wisc.edu/academics/undergraduate/current-students/>).

## EARNING TWO UNDERGRADUATE MAJORS SIMULTANEOUSLY

CALS permits undergraduates to pursue two CALS majors simultaneously. Both majors must be in the same degree program; two degrees must follow the policy outlined below. The following policies and procedures have been established for this program:

1. The student must complete an application form and have approval in advance from their CALS major advisor, the advisor of their desired second major, and the Associate Dean for Academic Affairs in the Office of Academic Affairs in CALS. This approval must be granted before the student has earned 86 credits.
2. The student must satisfy all requirements of both majors. The student must meet all CALS general course requirements and the degree program requirements, as well as all major field requirements.

**The diploma awarded will be based on the certification of completion of the degree. The transcript will note the completion of requirements for two or more majors.**



## EARNING A NON-CALS MAJOR WHILE COMPLETING A DEGREE PROGRAM IN THE COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

The College of Letters & Science (L&S) and the School of Education permit undergraduates currently enrolled in the College of Agricultural and Life Sciences to complete certain additional undergraduate majors offered by L&S or the School of Education and have this noted on the transcript. The following policies have been established for this program:

1. The student must complete an application form and have advance approval from their CALS major advisor, their non-CALS major advisor, and the Associate Dean for Academic Affairs in the Office of Academic Affairs in CALS. This approval must be granted before the student has earned 86 credits.
2. The non-CALS major is not to substitute for any major in CALS.
3. The student must satisfy all requirements of the non-CALS major, both the requirements established by the department (i.e., certain courses) and those established by the other school/college (e.g. for L&S, 15 credits of advanced work in the major in residence at UW–Madison), but is not required to complete the other school/college's degree requirements. The student must meet all CALS general course requirements and the degree program requirements, as well as all major field requirements for the CALS major.

## EARNING A GLOBAL HEALTH ADDITIONAL MAJOR WHILE COMPLETING A DEGREE PROGRAM IN ANOTHER SCHOOL/COLLEGE AT UW-MADISON

Students in another school/college at UW–Madison are eligible to declare a Global Health major if they have fewer than 86 credits toward graduation, receive permission from their home school/college, and maintain a primary major in the home school/college. The process for obtaining special permission to declare a Global Health major is dependent on the student's home school/college. Students must also contact the Global Health major advising unit about the steps required to declare an additional major and fulfill all the Global Health major requirements.

## EARNING TWO UNDERGRADUATE DEGREES SIMULTANEOUSLY

A student who wishes to earn **two undergraduate degrees simultaneously** (in contrast to earning two undergraduate majors simultaneously) should consult with the CALS Office of Academic Affairs as early as possible in their academic career regarding feasibility. **If the two degrees to be earned are within the College of Agricultural and Life Sciences**, at least 30 additional credits and all course and grade point requirements must be completed. Thus, a minimum of 150 credits (for most majors) would be required. Some courses may satisfy requirements for both degrees; however, students must complete 15 unique credits in each major. **A student must have an advisor in both major fields.** To work on two degrees simultaneously within the college, a student should seek permission as early as possible to ensure that it is feasible to complete both degrees.

**If the two degrees to be earned are from two different colleges** (one degree in Agricultural and Life Sciences and one degree in another school or college on this campus), the academic dean in both colleges must approve the student's plan. Note that not all colleges will allow dual

degrees. Where allowed, the following academic policies shall be followed (additional policies may exist):

1. Admission into the other college or school shall be based on that particular college or school admission criteria.
2. A student may seek two baccalaureate degrees simultaneously (in contrast to two majors), each from a different college, provided that the two degree programs differ sufficiently so that the combined total requirements for the two degrees are at least 150 credits and that the student's program is **approved by both colleges before the student has earned 86 credits**. The degrees from each college will be awarded simultaneously.

Applications and additional information pertaining to the earning of two undergraduate degrees simultaneously are on the CALS website (<https://cals.wisc.edu/academics/undergraduate/current-students/>) and available from the Office of Academic Affairs, 116 Agricultural Hall.

## SECOND BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Students with a bachelor of science (B.S.) or bachelor of arts (B.A.) degree from the University of Wisconsin–Madison or other accredited institution may, if eligible, pursue a second bachelor's degree from the College of Agricultural and Life Sciences.

Students who have been out of school for one semester or more must apply for admission (or readmission) with the regular undergraduate application. Continuing UW–Madison students do not need to submit this form. All candidates need an academic dean's permission from the Office of Academic Affairs to work toward a second bachelor's degree. A minimum of a 2.0 GPA is required. Several college majors require a higher GPA.

The following requirements for the second bachelor's degree must be met:

- Students must complete a minimum of **30 credits in residence**, of which 15 or more must be in the major field as specified by the major department. These credits are in **addition** to credits earned for the first degree.
- Candidates must **complete all university, college, major, and curricular degree program requirements**. Credits earned for the first degree will apply toward appropriate requirements for the second. However, students must take at least 30 additional credits, as noted above. Students with their first B.S. degree from the college must select a new major or degree program.

All second-degree candidates must be accepted by the department offering their program of interest and have their program approved by the college before beginning the program.

## RESOURCES

### STUDENT SERVICES

Regardless of major, CALS professionals can help students navigate their UW–Madison educational experience. As the academic dean's office for CALS, the Office of Academic Affairs (<https://cals.wisc.edu/academics/undergraduate/student-life/advising-and-services/>) assists all CALS and CALS-interested students with questions or concerns around academics, major exploration, careers, scholarships, study abroad, or other areas of student life. Individual advising is tailored to fit students' specific

needs and circumstances. CALS also offers programs for students from underrepresented populations.

## ACADEMIC ADVISING

Every student has an assigned advisor, and students are encouraged to consult with them regularly. In CALS, all students are assigned an advisor in their major field of study, or for undecided students in the Office of Academic Affairs. These advisors assist students with choosing courses to match their interests and fulfill all requirements for graduation. Advisors also talk with students about achieving their educational objectives, engaging in the full Wisconsin Experience, and planning for the future.

Students are also encouraged to seek advice from other university faculty and staff. There are many people on campus who are willing and able to help students who proactively seek advice.

## CAREER SERVICES

CALS Career Services (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>) provides resources and guidance for students to explore career interests and develop skills as they seek employment, internships, or admission to graduate or professional programs. Academic advisors and faculty in every CALS major also provide specialized career and pre-professional advising. CALS students and alumni have access to Handshake (<https://careers.wisc.edu/handshake/>), an online job and internship posting tool that includes thousands of listings. The Center for Pre-Health Advising (<https://prehealth.wisc.edu/>) is an excellent resource for CALS students interested in exploring professional careers in medicine, including human health and veterinary medicine.

## DEAN ON CALL

"Dean On Call" is a drop-in service that provides the opportunity for all CALS students to have a one-on-one session with an academic affairs professional to discuss an academic policy or problem, seek advice about a personal issue, or receive assistance when confronted with a special situation. See the CALS Office of Academic Affairs website (<https://cals.wisc.edu/academics/undergraduate/student-life/advising-and-services/>) for more information.

## SCHOLARSHIPS AND FINANCIAL RESOURCES

CALS has an extensive scholarship program (<https://cals.wisc.edu/academics/undergraduate/funding-your-education/cals-scholarships/>) with more than \$1.2 million in awards available to CALS students annually, including first-year students. This is in addition to university scholarships, grants, loans, and employment available at the Office of Student Financial Aid (<https://financialaid.wisc.edu/>). One yearly application allows students to be considered for any scholarships administered by the college. Scholarships that are awarded based on financial need require a current Free Application for Federal Student Aid (FAFSA (<https://studentaid.gov/>)) on file with the university.

## STUDY ABROAD

Today's college graduates must be prepared for the international community in which they will live and work. Study and research abroad programs offer students unique opportunities to enrich their education by experiencing other cultures and broadening their understanding of agricultural and life sciences outside the United States. CALS offers more than 34 short- and long-term programs in more than 20 countries, led by CALS faculty and administered by CALS Study Abroad ([https://](https://cals.wisc.edu/academics/undergraduate-students/studyabroad/)

[cals.wisc.edu/academics/undergraduate-students/studyabroad/](https://cals.wisc.edu/academics/undergraduate-students/studyabroad/)). Additionally, CALS students can choose from more than 250 UW-Madison study abroad programs (<https://studyabroad.wisc.edu/programs/>). All programs carry UW-Madison academic credit, and many fulfill academic and major requirements (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/>). CALS offers scholarships to CALS students for study abroad to reduce any financial barriers to participation.

## HONORS

The CALS Honors Program (p. 50) allows highly motivated students to continue challenging themselves through research and coursework. The objective of the Honors Program is to help students develop critical thinking and problem-solving abilities and to provide students the challenge of designing, conducting, and reporting research in collaboration with faculty from one of the world's leading research institutions.

## STUDENT ORGANIZATIONS

Student organizations (<https://cals.wisc.edu/academics/undergraduate/student-life/student-organizations/>) provide a vehicle for students to gain leadership experience, develop professional skills, and build on personal interests. CALS sponsors more than 20 organizations that help students meet their professional and personal interests.

## HONORS

### HONORS PROGRAM

The CALS Honors Program allows highly motivated students to continue challenging themselves through research and coursework. The objective of the Honors Program is to help students develop critical thinking and problem-solving abilities through specialized courses and to provide students the challenge of designing, conducting, and reporting research in collaboration with faculty from one of the world's leading research institutions.

### HONORS

CALS has two different avenues to earn an Honors degree designation. Students may complete either based on their interests and goals. Students are not allowed to complete both types of honors. In either option, a student must successfully complete a Senior Honors Thesis approved by the research mentor or committee.

#### Honors in Research

Students engage in the university's great research tradition through the completion of two research projects: an introductory project and a senior thesis project. Students identify a faculty mentor to oversee their research efforts and support their progression through the program. In addition to the hands-on research experience, students are required to enroll in coursework directed at furthering their knowledge in quality and ethical scientific discovery. Students who successfully complete Honors in Research (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/honors-research/>) will receive an Honors designation on their diploma.

#### Honors in the Major

Students complete a specified number of Honors credits in a designated set of courses to gain advanced knowledge and inquiry within their major field of interest. A limited number of CALS majors offer this program option; more information is located on the Requirements tab for the major.

Students who successfully complete Honors in the Major will receive an Honors designation on their transcript.

For complete information contact the Office of Academic Affairs, 116 Agricultural Hall, at 608-262-3003 or [academicaaffairs@cals.wisc.edu](mailto:academicaaffairs@cals.wisc.edu).

## DEAN'S LIST

Students who achieve at a high level academically are recognized by the dean. Selections to the Dean's List are announced at the close of each semester. The student's achievement for only the single semester is considered and is noted on the transcript. To be placed on the Dean's List, a student must have achieved at least a 3.5 GPA or above for *the semester's study load of not less than 12 credits, on a regular grade basis (A, AB, B, BC, C, D, F)*, regardless of overall grade point average, and must not have received a grade of F or an Incomplete for any course, or a U (for a pass/fail course) or an N (for Credit/No Credit graded course that was not passed).

## GRADUATION WITH DISTINCTION OR HIGHEST DISTINCTION

Students who graduate with a cumulative GPA that places them in the top 20 percent of the graduating class in the college will graduate with "Distinction"; those in the upper 5 percent, with "Highest Distinction." These students must have at least 60 credits on the UW–Madison campus. The notations on the student's transcript will read "Graduated with Distinction" or "Graduated with Highest Distinction" in the "Degrees Awarded" section of the transcript. The registrar makes these calculations and updates final transcripts approximately 45 days after the grading deadline for each semester.

## DISTINCTIVE SCHOLASTIC ACHIEVEMENT

A *preliminary* list of those degree candidates who may be eligible for Graduation with Distinction is prepared by the registrar prior to commencement. These students are eligible to wear a cardinal stole with their caps and gowns at commencement. Inclusion on the Distinctive Scholastic Achievement list does not guarantee Graduation with Distinction, which is determined after final grades are awarded.

## AGRICULTURAL AND APPLIED ECONOMICS

The Department of Agricultural and Applied Economics (AAE) at the University of Wisconsin–Madison was founded in 1909 and was the first department of agricultural economics in the United States. The department offers two undergraduate programs—Agricultural and Applied Economics (p. 52) and Agricultural Business Management (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/agricultural-applied-economics/business-management-abm/>). Both majors will give students a strong base in economics and how it is applied to real-world situations. The teaching and research in AAE focuses on the areas of development economics, environmental economics, and managerial economics.

The department also offers two certificates to undergraduate students enrolled at the University of Wisconsin–Madison: the Certificate in

Business Management for Agricultural and Life Sciences (p. 60) and the Certificate in Development Economics (p. 61).

## DEGREES/MAJORS/CERTIFICATES

- Agricultural and Applied Economics, B.S. (p. 52)
- Agricultural Business Management, B.S. (p. 56)
- Business Management for Agricultural and Life Sciences, Certificate (p. 60)
- Development Economics, Certificate (p. 61)

## PEOPLE

### Professors:

Tessa Conroy  
Steven Deller  
Paul Dower  
Sheldon Du  
Jeremy Foltz  
Corbett Grainger  
Sarah Johnston  
Paul Mitchell  
Priya Mukherjee  
Charles Nicholson  
Dominic Parker  
Daniel Phaneuf  
Thomas Rutherford  
Laura Schechter  
Guanming Shi  
Andrew Stevens

### Instructors:

Jeremy Beach  
Courtney Berner  
Silke Schmidt  
Jordan Van Rijn

### Undergraduate Advisor:

Michaela Thaw

For faculty and instructor profiles, visit the department website (<http://aae.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

The Department of Agricultural and Applied Economics offers a number of scholarships to students declared in both of our majors, Agricultural & Applied Economics (p. 52) and Agricultural Business Management (p. 56). All of our students are encouraged to apply each year for department and CALS scholarships through the Wisconsin Scholarship Hub (WiSH). Students in either of our majors or who have declared the Certificate in Business Management for Agricultural & Life Sciences (p. 60) are also eligible to apply for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), which can provide scholarships for up to three years. The Renk Scholarship Program is part of the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>) and

emphasizes leadership in contemporary agricultural issues and activities linked to agribusiness.

## RESOURCES

There are a number of student organizations of interest to students in our majors. For more information, please visit the CALS Student Organization (<https://cals.wisc.edu/academics/undergraduate-students/outside-the-classroom/student-organizations/#association-of-women-in-agriculture>) website.

# AGRICULTURAL AND APPLIED ECONOMICS, B.S.

Agricultural and applied economics (AAE) majors learn about the principles of economics and how to apply them to real-world problems and public policy debates. This training equips students to analyze the economic factors impacting a wide range of issues, including environmental challenges and sustainability; energy and climate change; globalization and trade; business economics and finance; global poverty and hunger; community and regional economic development; biotechnology; and food systems.

All AAE students take a set of core courses in microeconomics, macroeconomics, statistics and math, then select one of four concentrations: environmental economics, development economics, managerial economics or applied economics.

A degree in agricultural and applied economics helps students prepare to work as environmental economists, environmental managers, agricultural economists, policy and business analysts, researchers, managers, consultants, and auditors with nonprofit organizations, government agencies, co-operatives, multinational firms, agribusiness companies, financial institutions, and the food or retailing industry. Students also go on to pursue graduate-level degrees in economics, public policy, business, or law.

## LEARN THROUGH HANDS-ON, REAL-WORLD EXPERIENCES

Students are encouraged to apply their course learning to real life through research projects, independent studies and internships with guidance from faculty and staff members. During their final year, majors complete a senior capstone course where they work closely with fellow students on a semester-long project and also hear from program alumni.

## BUILD COMMUNITY AND NETWORKS

Students get to know faculty and instructors through the courses they take, and they can build their networks by participating in student organizations and the department's commodity trading challenge team.

Individuals selected for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), operated by the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>), receive mentorship and financial support, as well as internship and networking opportunities.

## CUSTOMIZE A PATH OF STUDY

AAE students customize their academic experience to fit their career goals by selecting one of four concentrations within the major: environmental economics, development economics, managerial economics, or applied economics.

## MAKE A STRONG START

A number of first-year seminar courses are available to help new students understand academic programs, access student services, and develop time management and study skills.

## GAIN GLOBAL PERSPECTIVE

Many AAE majors study abroad to gain an international perspective and prepare to participate in today's global economy. Students can explore studying abroad as an AAE major utilizing the AAE Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

# COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

## COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
Select one of the following:		3-6
ECON 310	Statistics: Measurement in Economics	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	

SOC/ C&E SOC 360	Statistics for Sociologists I	
GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	
<b>Core</b>		
A A E 215	Introduction to Agricultural and Applied Economics <sup>1</sup>	4
or ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	3-4
ECON 301	Intermediate Microeconomic Theory	4
or ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
ECON 302	Intermediate Macroeconomic Theory	4
or ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	

<b>Concentrations within the Major</b>		
Students must complete 15 credits of AAE courses 200-level or above. Students may choose to focus their studies on an area of concentration as follows: <sup>2</sup>		15
Applied Economics		
Development Economics		
Environmental Economics		
Managerial Economics		
<b>Capstone</b>		
A A E 500	Senior Capstone Experience	3
<b>Total Credits</b>		<b>41-45</b>

**1**  
A A E 215 Introduction to Agricultural and Applied Economics satisfies QR-B credit.

**2**  
A A E 215 Introduction to Agricultural and Applied Economics, A A E 299 Independent Study and A A E 500 Senior Capstone Experience may not count toward the 15 credits required in the major.

## CONCENTRATIONS WITHIN THE MAJOR

Code	Title	Credits
AAE courses, 200 level and above <sup>1</sup>		15
<b>Total Credits</b>		<b>15</b>

**1**  
AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics, A A E 299 Independent Study, or A A E 500 Senior Capstone Experience.

## DEVELOPMENT ECONOMICS

Code	Title	Credits
Select any of the following courses:		
A A E 319	The International Agricultural Economy	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3

A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON/INTL BUS 462	Latin American Economic Development	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
AAE courses, 200 level and above <sup>1</sup>		

1

AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics, A A E 299 Independent Study, or A A E 500 Senior Capstone Experience.

## ENVIRONMENTAL ECONOMICS

Code	Title	Credits
Select any of the following courses:		
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ENVIR ST 343	Environmental Economics	4
A A E 352	Global Health: Economics, Natural Systems, and Policy	4
A A E/ECON 371	Energy, Resources and Economics	3
A A E/ECON/F&W ECOL 531	Natural Resource Economics	3
A A E/ECON/ENVIR ST/URB R PL 671	Energy Economics	3
AAE courses, 200 level and above <sup>1</sup>		

1

AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics, A A E 299 Independent Study, or A A E 500 Senior Capstone Experience.

## MANAGERIAL ECONOMICS

Code	Title	Credits
Select any of the following courses:		
A A E 320	Agricultural Systems Management	3
A A E 322	Commodity Markets	4
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	3
A A E 335	Introduction to Data Analysis using Spreadsheets	2
A A E 419	Agricultural Finance	3
A A E/ECON 421	Economic Decision Analysis	4
AAE courses, 200 level and above <sup>1</sup>		

1

AAE courses 200 level and above may not include A A E 215 Introduction to Agricultural and Applied Economics, A A E 299 Independent Study, or A A E 500 Senior Capstone Experience.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Use economic concepts to think critically about real-world problems and public policy debates.
2. Use appropriate quantitative techniques to analyze economic problems.
3. Communicate results effectively orally and in writing.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE AGRICULTURAL & APPLIED ECONOMICS FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
COMM A		3 MATH 211 or 221 <sup>1</sup>	5
MATH 112 or 114 <sup>1</sup>		3-5 A A E 215	4
First Year Seminar		1 Ethnic Studies	3
CALS Biological Science		3 Electives	3
Electives		3	
<b>13-15</b>			<b>15</b>

#### Total Credits 28-30

#### Sophomore

Fall	Credits	Spring	Credits
ECON 102		3 ECON 301	4
Statistics Course		3 AAE Courses	3
CALS Biological Science		3 Comm B	3

Electives	6 Electives	5
	<b>15</b>	<b>15</b>

**Total Credits 30****Junior**

Fall	Credits	Spring	Credits
AAE Courses		3 AAE Courses	3
ECON 302		4 CALS International Studies	3
Gen Ed Requirement		3 CHEM 108 or 103	4-5
Electives		6 Electives	4
	<b>16</b>		<b>14-15</b>

**Total Credits 30-31****Senior**

Fall	Credits	Spring	Credits
AAE Courses		3 AAE course	3
Humanities		3 A A E 500	3
Electives		9 Electives	9
	<b>15</b>		<b>15</b>

**Total Credits 30**

1

Students must complete MATH 211 or MATH 217 or MATH 221. Students may satisfy the required level of math proficiency through the math placement exam. On the other hand, this level of competence may require as many as three semesters of coursework in mathematics.

## ADVISING AND CAREERS

**ADVISING**

Each agricultural and applied economics major receives one-on-one guidance from an academic advisor. The advisor helps students plan their coursework and identify opportunities to get involved in department and campus activities.

The agricultural and applied economics department offers a one-credit course in career development for majors. Students in the course hear from department alumni and others about their career paths and receive resume writing assistance and interviewing tips.

**CAREER OPPORTUNITIES**

Agricultural and applied economics graduates have great careers as environmental economists, agricultural economists, policy and business analysts, consultants, researchers, managers, traders and auditors for nonprofit organizations, government agencies, multinational firms, financial institutions, agribusiness companies, co-operatives and food companies. Graduates also pursue advanced degrees in economics, public policy, business, or law.

AAE graduates are recognized for their skills in data analysis, business and economic forecasting, strategic planning, management, and leadership.

For more information contact Michaela Thaw (pthaw@wisc.edu) or schedule an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/129721/schedule>).

## PEOPLE

**Professors:**

Tessa Conroy  
 Steven Deller  
 Paul Dower  
 Sheldon Du  
 Jeremy Foltz  
 Corbett Grainger  
 Sarah Johnston  
 Paul Mitchell  
 Priya Mukherjee  
 Charles Nicholson  
 Dominic Parker  
 Daniel Phaneuf  
 Thomas Rutherford  
 Laura Schechter  
 Guanming Shi  
 Andrew Stevens

**Instructors:**

Jeremy Beach  
 Courtney Berner  
 Silke Schmidt  
 Jordan Van Rijn

**Undergraduate Advisor:**

Michaela Thaw

For faculty and instructor profiles, visit the department website (<http://aae.wisc.edu/>).

## WISCONSIN EXPERIENCE

**STUDENT ORGANIZATIONS**

There are numerous campus student organizations of interest to agricultural and applied economics majors, including Economics Student Association, Global Economic Forum – Madison, and Women in Economics. A full list of organizations is available on the Wisconsin Involvement Network website (<https://win.wisc.edu/organizations/>).

**COMPETITIVE TEAMS**

Each year, a team of UW–Madison students participates in the annual CME Group University Trading Challenge (<https://www.cmegroup.com/events/university-trading-challenge.html>), a simulated trading competition that pits hundreds of college teams from around the world against one another as they make real-time commodity trading decisions.

**RESEARCH EXPERIENCE**

AAE students are able to gain social science research experience on both domestic and international topics by working with a faculty member on a specific project.

**INTERNSHIPS**

Agricultural and applied economics majors can complete an internship during their undergraduate years.

#### GLOBAL ENGAGEMENT

Many agricultural and applied economics students choose to study abroad. These programs help students gain an international perspective and prepare them to participate in today's global economy. Students can find more information on the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>). Study abroad options include programs that focus on sustainable development, food systems, agriculture, health and wellness, and community and economic development.

AAE students who select development economics as their area of concentration take numerous international-focused courses that address the global economy, population, and poverty.

#### COMMUNITY ENGAGEMENT AND VOLUNTEERING

AAE students have numerous volunteer activities to choose from. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. The Department of Agricultural and Applied Economics awards an average of \$60,000 in scholarships per year to students in the department. Students apply for CALS and AAE scholarships through a single application in the Wisconsin Scholarship Hub (WiSH). Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

AAE majors are also eligible to apply for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), which can provide scholarships for up to three years. The program, offered through the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>), is designed for high-performing students with an interest in agriculture or agribusiness. In addition to financial support, Renk Scholars are provided networking opportunities that help them find internships and other experiences to build their business and leadership skills.

## AGRICULTURAL BUSINESS MANAGEMENT, B.S.

Agricultural business management (ABM) majors learn to apply the fundamentals of business to agriculture and related industries. Students study business operations; finance and economic decision analysis; analytical and managerial tools; organization of the food system; and commodity markets.

Offered through the Department of Agricultural and Applied Economics, ABM coursework includes agribusiness, economics, statistics, accounting, finance, and management. Majors can take some courses through the School of Business, including business law, fundamentals of accounting and finance, and fundamentals of management. ABM majors learn managerial economics, how businesses make decisions and minimize risk,

and how to use applied mathematics and statistics to analyze prices and markets.

The agribusiness industry—which encompasses enterprises related to farming and the bio-economy—needs staff who are educated in both business and agriculture. The ABM major prepares students for great careers in management, business analysis, marketing, commodities trading, sales, consulting, banking, and finance. In addition to agribusiness firms, ABM graduates find employment with food companies, tech companies, co-operatives, government agencies, and financial institutions.

#### Learn through hands-on, real-world Experiences

Students are encouraged to apply their course learning to real life through research projects, independent studies, and internships with guidance from faculty and staff members. During their final year, majors complete a senior capstone course where they work closely with fellow students on a semester-long project and also hear from program alumni.

#### Build community and networks

Students get to know faculty and instructors through the courses they take, and they can build their networks by participating in student organizations and the department's commodity trading challenge team.

Individuals selected for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), operated by the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>), receive mentorship and financial support, as well as internship and networking opportunities.

#### Customize a path of study

Core courses focus on macroeconomics, microeconomics, finance, accounting, commodity markets, and economic analysis, planning, and management. ABM students customize their academic experience to fit their career goals by completing additional coursework in finance, accounting, management, marketing, business law, and human resources.

#### Make a strong start

A number of first-year seminar courses are available to help new students understand academic programs, access student services, and develop time management and study skills.

#### Gain global perspective

There are several internationally focused courses that ABM majors can take within the Department of Agricultural and Applied Economics. Some students choose to study abroad, working with their advisor and the CALS study abroad office to identify appropriate programs. Students can explore studying abroad as an ABM major utilizing the Agricultural Business Management Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they



have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

Students in the Agricultural Business Management BS degree program may not declare the Certificate in Business Management for Agricultural and Life Sciences.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		

Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.

First Year Seminar (p. 46)	1
International Studies (p. 47)	3
Physical Science Fundamentals	4-5
CHEM 103      General Chemistry I	
or CHEM 108      Chemistry in Our World	
or CHEM 109      Advanced General Chemistry	
Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
Select one of the following:		3-4
ECON 310	Statistics: Measurement in Economics	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	
SOC/ C&E SOC 360	Statistics for Sociologists I	
PSYCH 210	Basic Statistics for Psychology	
<b>Core</b>		
A A E 215	Introduction to Agricultural and Applied Economics	4
or ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	3-4
ECON 301	Intermediate Microeconomic Theory	4
or ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
A A E 267	Career Development for AAE & ABM Majors	1
A A E 320	Agricultural Systems Management	3
A A E 335	Introduction to Data Analysis using Spreadsheets	2
A A E 322	Commodity Markets	4
A A E 419	Agricultural Finance	3

A A E/ECON 421	Economic Decision Analysis	4
A A E 422	Food Systems and Supply Chains	3
Select three of the following:		9
A A E 319	The International Agricultural Economy	
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
ECON/FINANCE 300	Introduction to Finance	
ECON 302	Intermediate Macroeconomic Theory	
GEN BUS 301	Business Law	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
MARKETNG 300	Marketing Management	
M H R 300	Managing Organizations	
M H R 305	Human Resource Management	
ACCT I S 100	Introductory Financial Accounting	
ACCT I S 211	Introductory Managerial Accounting <sup>1</sup>	
ACCT I S 300	Accounting Principles	
<b>Capstone</b>		
A A E 500	Senior Capstone Experience	3
<b>Total Credits</b>		<b>51-53</b>

1

ACCT I S 100 is a prerequisite for ACCT I S 211.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Evaluate how insights from economics can support effective decision-making in businesses, communities, and societies.
2. Apply economic concepts and methods to real world situations in agricultural business management.
3. Analyze, interpret, and effectively summarize quantitative data.
4. Employ economic models and mathematical techniques to structure and solve questions of resource allocation.
5. Describe the structure of the agricultural business sector and how it functions.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE AGRICULTURAL BUSINESS MANAGEMENT FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 112 or 114 <sup>1</sup>		3-5 MATH 211 <sup>1</sup>	5
COMM A		3 A A E 215	4
CALS First Year Seminar		1 Ethnic Studies	3
CALS Biological Science Requirement		3 Elective	3
Elective		3	
<b>13-15</b>			<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ECON 102		3-4 ECON 301	4
ECON 310, STAT 301, or STAT 371		3-4 A A E 322	4
A A E 267		1 CALS Biological Science	3
A A E 320		3 Major Elective Requirement	3
Humanities		3	
Elective		3	
<b>16-18</b>			<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
A A E 335		2 A A E 419	3
A A E 422		3 CHEM 108	5
COMM B		3 Humanities	3-4
Elective		7 Elective	3
<b>15</b>			<b>14-15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
A A E/ECON 421		4 A A E 500	3
CALS International Studies		3 Major Elective Requirement	3
Major Elective Requirement		3 Electives	9

Electives	6	
	<b>16</b>	<b>15</b>

**Total Credits 118-123**

Students must complete at least 120 total credits to be eligible for graduation.

1

Students must complete MATH 211, MATH 217, or MATH 221. Students may satisfy the required level of math proficiency through the math placement exam. On the other hand, this level of competence may require as many as three semesters of coursework in mathematics.

## ADVISING AND CAREERS

### Advising

Each agricultural business management major receives one-on-one guidance from an academic advisor. The advisor helps students plan their coursework and identify opportunities to get involved in department and campus activities.

The agricultural and applied economics department offers a one-credit course in career development for majors. Students in the course hear from department alumni and others about their career paths and receive resume writing assistance and interviewing tips.

### Career Opportunities

Agricultural business management graduates have great careers in management, business analysis, marketing, commodities trading, sales, consulting, banking, and finance. They find positions with agribusiness firms, food companies, tech companies, co-operatives, government agencies, and financial institutions.

Graduates are recognized for their skills in management, leadership, public speaking, sales, marketing, social media, customer service, strategic planning, risk analysis, business process management, and management accounting.

For more information contact Michaela Thaw ([pthaw@wisc.edu](mailto:pthaw@wisc.edu)) or schedule an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/129721/schedule>).

## PEOPLE

### Professors:

Tessa Conroy  
 Steven Deller  
 Paul Dower  
 Sheldon Du  
 Jeremy Foltz  
 Corbett Grainger  
 Sarah Johnston  
 Paul Mitchell  
 Priya Mukherjee  
 Charles Nicholson  
 Dominic Parker  
 Daniel Phaneuf

Thomas Rutherford  
 Laura Schechter  
 Guanming Shi  
 Andrew Stevens

### Instructors:

Jeremy Beach  
 Courtney Berner  
 Silke Schmidt  
 Jordan Van Rijn

### Undergraduate Advisor:

Michaela Thaw

For faculty and instructor profiles, visit the department website (<http://aae.wisc.edu/>).

## WISCONSIN EXPERIENCE

### Student organizations

There are numerous campus student organizations of interest to agricultural business management majors, including Alpha Gamma Rho, Association of Women in Agriculture, Collegiate Farm Bureau, and National Agri-Marketing Association. A full list of organizations is available on the Wisconsin Involvement Network website (<https://win.wisc.edu/organizations/>).

### Competitive teams

Students can join the UW-Madison team that participates in the annual CME Group University Trading Challenge (<https://www.cmegroup.com/events/university-trading-challenge.html>). This simulated trading competition pits hundreds of college teams from around the world against one another as they make real-time commodity trading decisions.

### Research experience

Students are able to gain social science research experience on both domestic and international topics by working with a faculty member on a specific project.

### Internships

Agricultural business management majors are encouraged to complete an internship during their undergraduate years, and they typically do so during the summer after their sophomore or junior years. Internships allow students to explore career options, gain professional skills, and develop their networks.

### Community engagement and volunteering

Students have numerous volunteer activities to choose from. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

### Global engagement

ABM majors can choose to study abroad. Students work with their advisor and the CALS study abroad office to identify appropriate programs. More information is available on the CALS study abroad advising page

(<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

## RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences (CALS) receive more than \$1.25 million in scholarships annually. The Department of Agricultural and Applied Economics awards an average of \$60,000 in scholarships per year to students in the department. Students apply for CALS and department scholarships through a single application in the Wisconsin Scholarship Hub (WiSH). Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

ABM majors are also eligible to apply for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), which can provide scholarships for up to three years. The program, offered through the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>), is designed for high-performing students with an interest in agriculture or agribusiness. In addition to financial support, Renk Scholars are provided networking opportunities that help them find internships and other experiences to build their business and leadership skills.

## BUSINESS MANAGEMENT FOR AGRICULTURAL AND LIFE SCIENCES, CERTIFICATE

Basic business literacy can benefit all graduates, whatever their field or intended career may be. When entering the professional world, CALS students increasingly encounter situations that require an understanding of basic business and management concepts. The Certificate in Business Management for Agricultural and Life Sciences can provide students the business skills that employers value.

The certificate offers students in the College of Agricultural and Life Sciences (CALS) the opportunity to gain business knowledge and have it recorded on their transcript. The certificate is designed specifically for students intending to pursue careers in agriculture and life sciences, and enrollment is open only to undergraduates currently enrolled in CALS. This professional credential is offered by the Department of Agricultural and Applied Economics, the Department of Life Sciences Communication, and the Renk Agribusiness Institute.

## HOW TO GET IN

To declare this certificate, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44). Contact the advisor listed under the *Advising and Careers* tab for more information or to declare the certificate.

Students may not earn this certificate in conjunction with a BS in Agricultural Business Management.

## REQUIREMENTS

Code	Title	Credits
<b>Completion of the certificate requires a total of six courses.</b>		
<i>The following four courses are required:</i>		
A A E 215	Introduction to Agricultural and Applied Economics	4
LSC 270	Marketing Communication for the Sciences	3
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
<i>Select two courses from the following:</i>		5-6
A A E 319	The International Agricultural Economy	
A A E 320	Agricultural Systems Management	
A A E 322	Commodity Markets	
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	
A A E 335	Introduction to Data Analysis using Spreadsheets	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E 422	Food Systems and Supply Chains	
A A E/ECON 526	Quantitative Methods in Agricultural and Applied Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
DY SCI 233	Dairy Herd Management I	
DY SCI 234	Dairy Herd Management II	
DY SCI 535	Dairy Farm Management Practicum	
LSC 250	Research Methods in the Communication Industry	
LSC 251	Science, Media and Society	
LSC 432	Social Media for the Life Sciences	
LSC 435	Brand Strategy for the Sciences	
<b>Total Credits</b>		<b>18-19</b>

- No substitutions are allowed for the core courses.
- Students may count no more than two courses toward both their major requirements and these certificate requirements.
- Minimum average 2.000 GPA in all certificate courses.
- 12 credits in the certificate must be taken in residence.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Understand general business concepts.
2. Understand business management fundamentals in an agricultural and life sciences context.
3. Understand economics, marketing and communication as they relate to business management in agricultural and life science industries.

## ADVISING AND CAREERS

For more information or to declare the Certificate in Business Management for Agricultural and Life Sciences, contact:

Michaela Thaw  
 Department of Agricultural and Applied Economics  
 424 Taylor Hall  
 608-262-9488  
 pthaw@wisc.edu  
 Schedule an appointment using Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/129721/schedule>).

## CAREERS

Students pursuing the Certificate in Business Management for Agricultural and Life Sciences are often interested in careers such as running a research lab, managing the books on their family farm, banking, business analysis, marketing, or management and sales, depending on their major. When combined with their major, the certificate can provide a basic background in business management that many employers find valuable.

Students can use the services provided by the CALS Career Services Office (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>), which include help with creating a resume or cover letter and mock interviews. CALS students also have access to Handshake (<https://cals.wisc.edu/academics/undergraduate-students/career-services/handshake/>), an online job/internship posting tool that provides students with hundreds of job and internship listings.

## PEOPLE

### FACULTY

Conroy, Tessa  
 Du, Sheldon  
 Mitchell, Paul  
 Nicholson, Charles  
 Shi, Guanming (Chair)  
 Stevens, Andrew

### FACULTY ASSOCIATES

Beach, Jeremy  
 Berner, Courtney

### LECTURER

van Rijn, Jordan

### UNDERGRADUATE ADVISOR

Thaw, Michaela

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Students declared in the Certificate in Business Management for Agricultural and Life Sciences may choose to do an internship to get some experience in their field of interest. They can use the services provided by the CALS Career Services Office (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>) to help find an internship, including Handshake (<https://cals.wisc.edu/academics/undergraduate-students/career-services/handshake/>), an online job/internship posting tool that provides students with hundreds of job and internship listings.

### RENK SCHOLARSHIP PROGRAM

Students declared in the Certificate in Business Management for Agricultural and Life Sciences are eligible to apply for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), which can provide scholarships for up to three years. The Renk Scholarship Program is part of the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>) and emphasizes leadership in contemporary agricultural issues and activities linked to agribusiness.

## RESOURCES AND SCHOLARSHIPS

### RENK SCHOLARSHIP PROGRAM

Students declared in the Certificate in Business Management for Agricultural and Life Sciences are eligible to apply for the Renk Scholarship Program (<https://renk.aae.wisc.edu/renk-scholarship/>), which can provide scholarships for up to three years. The Renk Scholarship Program is part of the Renk Agribusiness Institute (<https://renk.aae.wisc.edu/>) and emphasizes leadership in contemporary agricultural issues and activities linked to agribusiness.

## DEVELOPMENT ECONOMICS, CERTIFICATE

The certificate in development economics gives students a solid foundation of analytical skills that will enable them to better understand the challenges created by world poverty. They will learn how economics can be used to address the problems of poverty and the impact of globalization on growth and development. Students will focus on such issues as: the relationship between population growth and economic growth, the major debates about food self-sufficiency and food security, how child labor and gender discrimination limit economic development, and what environmental problems are posed by economic development.

The certificate in development economics is open to any undergraduate student enrolled at the University of Wisconsin–Madison.

## HOW TO GET IN

The certificate in development economics is open to any undergraduate student enrolled at the University of Wisconsin–Madison. In order to declare the certificate, the student must have successfully completed A A E 215, ECON 101 or ECON 111. Contact the advisor listed under the Advising and Careers tab for more information or to declare the certificate.

## REQUIREMENTS

Code	Title	Credits
<b>In order to declare the certificate, the student must have successfully completed one of the following:</b>		
A A E 215	Introduction to Agricultural and Applied Economics	
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics—Accelerated Treatment	

Code	Title	Credits
<b>The certificate requires five courses.</b>		
<i>Complete two core courses:</i>		
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/INTL ST 373	Globalization, Poverty and Development	3
or A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	

*Select one course from the following:* 3

A A E 319	The International Agricultural Economy	
A A E/AGRONOMY/NUTR SCI 350	World Hunger and Malnutrition	
A A E/INTL ST 373	Globalization, Poverty and Development	
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	
A A E/ECON/INTL BUS 462	Latin American Economic Development	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 477	Agricultural and Economic Development in Africa	

*Select one course from the following:* 3

C&E SOC/ENVR ST/SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/SOC 630	Sociology of Developing Societies/Third World	
ECON 364	Survey of International Economics	
ECON 464	International Trade	
ECON 467	International Industrial Organizations	
ECON 475	Economics of Growth	
GEOG/ENVR ST 339	Environmental Conservation	
GEOG 340	World Regions in Global Context	
INTL BUS 200	International Business	
INTL BUS/FINANCE 445	Multinational Business Finance	
INTL ST 402	Topics in Politics and Policy in the Global Economy	

POLI SCI 330	Political Economy of Development	
POLI SCI 348	Analysis of International Relations	
POLI SCI 350	International Political Economy	
<i>Select one additional course from any of the courses listed above</i>		3
<b>Total Credits</b>		<b>15</b>

- A student may combine this certificate with any other certificate and/or major. However, students with a major in Agricultural and Applied Economics, a major in Economics, or a major in the Politics and Policy in the Global Economy option in International Studies may count no more than 2 courses toward both their major requirements and the requirements for the certificate in development economics.
- 50% of certificate coursework must be completed in residence.
- Minimum average 2.000 GPA in all certificate courses.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Understand the impacts of global economic processes, such as trade, foreign investment, and migration, on growth and development.
2. Understand the contributions of private and public investments in areas such as agriculture, education, environmental resources, health care, industrialization, and technology adoption to growth and development, and the methods for measuring those effects.

## ADVISING AND CAREERS

For more information or to declare the certificate in development economics, contact:

Michaela Thaw  
 Department of Agricultural and Applied Economics  
 608-262-9488  
 pthaw@wisc.edu  
 Schedule an appointment using Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/129721/schedule>).

## CAREERS

Students pursuing the certificate in development economics are often interested in careers in international development. Depending on their major, they often find careers in policy analysis, consulting, or working abroad. They can find employment with a variety of employers such as nonprofit organizations, government agencies, cooperatives, or multinational firms. Many students pursue graduate degrees in economics, public policy, law, or other areas.

## PEOPLE

### PROFESSORS

Foltz, Jeremy

Rutherford, Thomas  
Schechter, Laura  
Shi, Guanming (Chair)

## ASSISTANT PROFESSORS

Dower, Paul  
Mukherjee, Priya

## UNDERGRADUATE ADVISOR

Thaw, Michaela

## WISCONSIN EXPERIENCE

### STUDY ABROAD

Many students declared in the certificate in development economics choose to study abroad. Study abroad programs offer students the opportunity to gain an international perspective and can prepare them to participate in today's global economy. International Academic Programs (IAP) (<https://www.studyabroad.wisc.edu/>) serves as the primary study abroad office on campus, offering more than 200 programs in more than 60 countries around the world. IAP program offerings, available to all majors, range from short-term, faculty-led opportunities to intensive language study, internships, a semester or a year at a university overseas, service learning, and programs with special themes. There are also international programs offered through the College of Agricultural and Life Sciences (CALS) (<https://cals.wisc.edu/academics/undergraduate-students/studyabroad/>). Study abroad programs in CALS cover a variety of content areas such as sustainable development, food systems, agriculture, health and wellness, and community and economic development.

## AGRICULTURAL AND LIFE SCIENCES - COLLEGE-WIDE

### DEGREES/MAJORS/CERTIFICATES

- College of Agricultural and Life Sciences Honors (p. 63)
- Individual Major, B.S. (p. 64)

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES HONORS

The CALS Honors Program allows motivated students to continue challenging themselves in the classroom and beyond. Students may pursue either Honors in Research or Honors in the Major. Both tracks require a senior honors thesis and result in an honors designation upon graduation.

### HONORS IN RESEARCH

Students completing the CALS Honors in Research track engage in the university's great research tradition. From selecting a research question and designing a study through analysis and presentation of the results, the Honors in Research track requires students to explore the full scientific

process. Students identify a faculty mentor to oversee their research efforts and support their progression through the program. In addition to this hands-on research experience, students are required to enroll in coursework directed at furthering their knowledge in quality and ethical scientific discovery.

### HONORS IN MAJOR

Information can be found in the "Requirements" tab for each major that offers the option.

## HOW TO GET IN

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

#### **Admission Criteria for New First-Year Students:**

- Complete program application including essay questions

#### **Admission Criteria for Transfer and Continuing UW-Madison Students:**

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

### HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

The Honors in Research track requires students to complete two research projects, an introductory project and a senior thesis project. Students work under the guidance of a faculty mentor for both projects.

In the course of this program, it is expected that the student will: (i) learn the background and methods of the discipline; (ii) identify an interesting and tractable problem or question for study; (iii) learn to draft a proposal defending the relevance and appropriateness of specific research efforts; (iv) demonstrate appropriate skills in working on that problem in a manner appropriate to a professional in the discipline; (v) analyze and interpret the results of their efforts; and (vi) present these results as a thesis and in an approved public forum.

To earn Honors in Research, students must first be admitted to the college's Honors Program. Students must then make satisfactory progress toward the program requirements listed below and maintain a 3.25 GPA. Failure to maintain this progress will result in removal of the student from the Honors Program.

#### **Program requirements:**

- Identify a research mentor
- Complete introductory (one-semester) research project and presentation
- Complete three seminar courses (one credit each)
  - INTER-AG 288 (spring of freshman year)
  - INTER-AG 388 (spring of sophomore year)
  - INTER-AG 488 (spring of junior year)
- Enroll in Senior Honors Thesis credits (681 and 682; or 699 in the mentor's department) for two semesters at a minimum of two credits each semester
- Complete a Senior Honors Thesis research project and presentation
- Submit the Senior Honors Thesis and related documentation to CALS Academic Affairs
- Maintain a cumulative grade point average of 3.25

Additional information can be found on the Honors website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>).

## ADVISING AND CAREERS

Find additional information on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Questions may be directed to Heather Mialik, the CALS Honors Program Manager, at [heather.mialik@wisc.edu](mailto:heather.mialik@wisc.edu) or CALS Academic Affairs at 608-262-3003.

## INDIVIDUAL MAJOR, B.S.

Students who wish to pursue a special intellectual problem or academic path not adequately covered by existing majors can work with advisors and faculty to create an individual path of study to meet their goals. The individual major must involve courses from several programs, must be at least as rigorous as existing majors, and must be targeted at a special intellectual problem or academic need identified by the student.

The individual major must be approved by a faculty committee and the CALS Curriculum Committee. Students are strongly encouraged to consult with an assistant dean in the CALS Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion.

### Learn through hands-on, real world experiences

Most CALS students complete independent research under the guidance of internationally recognized faculty researchers. Lab or field courses related to the special interests of the student are encouraged as part of the individual major.

### Build community and networks

With more than 20 CALS-sponsored student organizations, students can build their professional networks early and enhance their leadership skills.

### Customize a path of study

Students who complete an approved individual major work closely with faculty and staff to craft a path of study unique to them. Their diploma will include the approved name of their specialized major.

### Make strong start

A number of first-year seminar courses are available to help new students understand academic programs, access student services, and develop time management and study skills.

### Gain global perspective

All individual majors must complete a CALS International Studies course or approved study abroad experience. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

Individual majors must be approved by a faculty committee and the CALS Curriculum Committee. Approval is not guaranteed, so students should consider alternative options carefully. Students are strongly encouraged to consult with an assistant dean in the Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion. The process to request to pursue an individual major is outlined below.

The student selects a three-person faculty committee from departments offering courses in the proposed major. The major advisor is from a CALS department that offers many of the courses in the proposed individual major. No more than two members of the committee can be from a single department. The student must submit a proposed plan of study to the committee for review and approval. The faculty committee must consult with the department with the most courses in the proposed major. The plan should include: the title of the proposed major; the rationale for the major; learning outcomes for the major and a brief assessment plan; the list of courses and the reasons for including each course in the major; and a semester plan for degree completion. The student is required to earn at least 30 credits after the term in which the proposal is approved. Thus, early planning is essential.

If the faculty committee approves the plan, the student should work with CALS Academic Affairs to submit the plan of study to the CALS Curriculum Committee along with a letter of support from the major advisor and a summary of the department discussion of the plan. The student and faculty advisor will meet with the Curriculum Committee to present the proposal. The Curriculum Committee may approve the proposal, reject the proposal, or ask for further clarification and resubmission. **The decision of the Curriculum Committee is final.**

Any changes in the major must be approved by the faculty advisor and reported to the Office of Academic Affairs, and any changes that significantly affect the nature or rigor of the program must be reviewed and approved by the Curriculum Committee.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the



requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>Breadth—Humanities/Literature/Arts: 6 credits</li> <li>Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth—Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
	Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.	
	Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.	
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
	CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

## INDIVIDUAL MAJOR REQUIREMENTS

### DEVELOPMENT OF THE INDIVIDUAL MAJOR

Students are strongly encouraged to consult with an assistant dean in the Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion. Development of the individual major is the responsibility of the student. The student should identify a faculty major advisor from the CALS department that offers many of the courses in the proposed individual major. In addition, the student should select two additional faculty from departments offering the courses in the proposed major to serve on the faculty committee. The student should consult with the faculty members and an assistant dean in Academic Affairs as a plan of study is developed. The plan of study must include the following:

- title of proposed major
- rationale for the major (what specific goal does the major achieve that cannot be achieved through one or more existing majors? what is the targeted intellectual problem? why is the major necessary for achieving the student's academic and career goals?)
- 3-5 learning outcomes for the major with a brief explanation of how learning will be assessed
- list of courses, including the reason for including each course in the major (how does each course contribute to the major learning outcomes?)
- semester plan for degree completion and estimated graduation term (if graduation exceeds four total years, include a justification for the extended time-to-degree; note that the student must earn at least 30 credits after the term in which the proposal is approved)

### APPROVAL OF THE INDIVIDUAL MAJOR

Once the plan of study is developed, the student submits the plan to the faculty committee for review and approval. The faculty committee must consult with the department with the most courses in the proposed major. The faculty committee may require revisions prior to approval, or choose not to accept the plan. Once approved, the student should work with CALS Academic Affairs to submit the plan of study to the CALS Curriculum Committee along with a letter of support from the major advisor and a summary of the department discussion of the plan. The student and faculty advisor will meet with the curriculum committee to present the proposal. The curriculum committee may approve the proposal, reject the proposal, or ask for further clarification and resubmission. **Approval of an individual major is not guaranteed, so students should consider alternative options carefully. The decision of the curriculum committee is final.**

Any changes in the major must be approved by the faculty advisor and reported to the Office of Academic Affairs, and any changes that significantly affect the nature or rigor of the program must be reviewed and approved by the curriculum committee.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

Students will develop learning outcomes as part of the individual major proposal process in consultation with their faculty mentors and an assistant dean. Review the Provost's website (<https://assessment.provost.wisc.edu/student-learning-outcomes/writing-student-learning-outcomes/>) for guidelines on developing learning outcomes.

## FOUR-YEAR PLAN

Students will develop a semester-by-semester plan as part of the proposal process for the individual major, in consultation with their faculty mentors and an assistant dean. Review the Four-Year Plans available for similar or related majors in the *Guide* to begin planning. Students should submit the proposal early in their academic career but no later than achieving senior standing (86 credits) to ensure timely progress to degree completion.

## ADVISING AND CAREERS

### Advising

Students are strongly encouraged to consult with an assistant dean in the Office of Academic Affairs early in their undergraduate career to discuss the process, planning, and feasibility of completion.

Students are required to identify a faculty advisor as part of the process for requesting approval to pursue an individual major. The faculty advisor serves as the student's academic advisor along with support from the other members of the student's faculty committee and professional advisors in the Office of Academic Affairs.

### Career opportunities

Students with specific post-graduate plans who pursue an individual major can work with advisors to craft a curricular plan that will meet their career goals.

## WISCONSIN EXPERIENCE

Opportunities to apply classroom learning to real-world settings is at the core of a CALS education. We offer a variety of CALS Signature Experiences for students in all majors to live the Wisconsin idea and fulfill the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/>).

These opportunities fall into five major categories:

CALS students **make a strong start**, and every CALS first-year student can achieve that through a First-Year Seminar to explore different areas of study, learn about how to take advantage of campus resources, and make friends. There are several seminars to choose from, including QuickStart (<https://cals.wisc.edu/academics/prospective-students/quickstart/>), an online course that allows students to begin their college career the summer before they arrive on campus.

CALS students **learn through hands-on, real world experiences**. A majority of CALS students earn credit for research experiences in labs and internships.

Through student organizations, peer advising and mentoring, and residential learning communities, students **build their community and networks**.

Students **gain a global perspective** by taking courses with an international focus, and many students choose to study abroad. CALS offers more than 34 faculty-led study abroad programs, and students may also choose from general UW–Madison study abroad opportunities.

Finally, many CALS students take advantage of the ability to **customize their path of study** by participating in an honors program (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/#honorstext>), pursuing certificates or multiple majors, and choosing elective courses that match their interests and meet their goals.

## RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## AGRONOMY

Agronomy is plant biology striving to meet the world's expanding need for food, fiber, and fuel in an efficient, environmentally sound, and sustainable manner.

An undergraduate student majoring in Agronomy earns a bachelor of science degree. The Agronomy curriculum offers undergraduate and graduate studies in plant biotechnology, breeding, genetics, physiology, crop management and protection strategies, agroecology, and sustainable agriculture. Agronomy undergraduate students concentrate on plant science courses but also select related courses in soil science, genetics, economics, business, engineering, entomology, and the animal sciences, depending upon their interests.

The current demand for Agronomy graduates exceeds supply, and we expect the demand to increase. Career possibilities include biotechnology, research, agri-business, resource conservation, and crop production and

management. In addition to classroom learning, students gain practical experience in their area of interest and earn degree credit at the same time through internships and independent study. The Agronomy major also serves as an excellent foundation for students interested in pursuing advanced studies in plant biotechnology, breeding, genetics, physiology, crop management, agroecology, or sustainable agriculture. Graduate programs are described in the *Graduate Guide*.

## DEGREES/MAJORS/CERTIFICATES

- Agronomy, B.S. (p. 67)

## PEOPLE

### PROFESSORS

Ané, Jean-Michel  
 Conley, Shawn  
 de Leon, Natalia  
 Duke, Stan  
 Henson, Cynthia  
 Gutierrez, Lucia  
 Jackson, Randy  
 Jahn, Molly  
 Kaepler, Shawn  
 Kucharik, Chris (chair)  
 Lauer, Joe  
 Renz, Mark  
 Stoltenberg, Dave  
 Tracy, William

### ASSOCIATE PROFESSORS

Kaepler, Heidi

### ASSISTANT PROFESSORS

Picasso, Valentin  
 Werle, Rodrigo

For more information about our faculty and their research interests, visit our departmental website (<https://agronomy.wisc.edu/people/faculty/>).

## RESOURCES AND SCHOLARSHIPS

The Department of Agronomy is proud to participate in the CALS Scholarship Program, which awards thousands of dollars to undergraduate scholars every year. The majority of our students have some form of financial aid through CALS, the university, or work-study or laboratory jobs.

In addition, the department awards money each year to students who wish to study abroad.

## AGRONOMY, B.S.

### CREATING A HEALTHIER, MORE PRODUCTIVE, MORE RESILIENT AGRICULTURE FOR WISCONSIN AND THE WORLD.

That is the challenge taken up by the faculty, staff, and students of the Department of Agronomy.

We generate and apply knowledge about the plants that feed and benefit humankind. Agronomic crops are typically grown for grain to feed people and livestock, or are processed into products. Feed crops are grown specifically to meet the nutritional needs of livestock. Forage crops are grown for their stems, leaves, and other edible plant parts.

We find and implement solutions to problems and opportunities concerning efficiency and sustainability of crop production and in safe and environmentally sound ways.

We generate knowledge on the genetics, genomics, biochemistry, and physiology of plants.

We study the interactions among cropping systems, climate, and the environment. We emphasize sustainable agriculture, whether precision, traditional or organic, in order to reduce the impact on the environment and the inhabitants of our planet.

We work to ensure that agricultural systems and products in Wisconsin and the world are able to meet rapidly-changing needs and those of future generations.

Undergraduates in the Department of Agronomy earn a bachelor of science degree to prepare them for everything from pursuit of a graduate degree to careers in science, education, agriculture, agribusiness, and environment and conservation.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALC). For information about becoming a CALC first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world.

Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Complete one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
MATH 211	Calculus	
MATH 221	Calculus and Analytic Geometry I	
Complete one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
<b>Chemistry</b>		
Complete one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Complete one of the following options:		10
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
<b>Economics</b>		
Complete one of the following:		3-4
A A E 215	Introduction to Agricultural and Applied Economics	
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Foundation</b>		

Complete 8 credits from any Foundation category (see list below) 8

**Core**

Complete all of the following: 12

AGRONOMY 100 Principles and Practices in Crop Production

SOIL SCI 301 & SOIL SCI 302 General Soil Science and Meet Your Soil: Soil Analysis and Interpretation Laboratory

PL PATH 300 Introduction to Plant Pathology

Complete one of the following: 3

GENETICS 466 Principles of Genetics

AGRONOMY/HORT 338 Plant Breeding and Biotechnology

Complete one of the following: 3-4

ENTOM/ZOOLOGY 302 Introduction to Entomology

ENTOM 351 Principles of Economic Entomology

Complete one of the following: 3-4

AGRONOMY/BOTANY/SOIL SCI 370 Grassland Ecology

BOTANY/F&W ECOL 455 The Vegetation of Wisconsin

BOTANY/F&W ECOL/ZOOLOGY 460 General Ecology

ENVIR ST/LAND ARC 361 Wetlands Ecology

**Electives within the Major**

Complete 14 additional credits of Agronomy courses<sup>1</sup> 14

**Capstone**

AGRONOMY 500 Senior Capstone Experience 2

**Total Credits** 71-79

1

No more than 3 credits total in AGRONOMY 299 Independent Study, AGRONOMY 399 Coordinative Internship/Cooperative Education, AGRONOMY 699 Special Problems. Credits used to satisfy the Capstone experience may not count here.

**FOUNDATION COURSES****AG SOCIAL SCIENCE**

Code	Title	Credits
A A E 319	The International Agricultural Economy	3
A A E 320	Agricultural Systems Management	3
A A E 322	Commodity Markets	4
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 474	Economic Problems of Developing Areas	3
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	4

C&E SOC/SOC 222 Food, Culture, and Society 3

C&E SOC/HIST SCI 230 Agriculture and Social Change in Western History 3

C&E SOC/AMER IND/SOC 578 Poverty and Place 3

C&E SOC/SOC 650 Sociology of Agriculture 3

**ANIMAL SCIENCE**

Code	Title	Credits
AN SCI/DY SCI 101	Introduction to Animal Sciences	3
AN SCI 200	The Biology and Appreciation of Companion Animals	3
AN SCI/DY SCI/NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
DY SCI 205	Dairy Cattle Improvement Programs	2
DY SCI/AN SCI 361	Introduction to Animal and Veterinary Genetics	2
DY SCI/AN SCI 363	Principles of Animal Breeding	2
DY SCI/AN SCI 370	Livestock Production and Health in Agricultural Development	3
DY SCI 378	Lactation Physiology	3
ENTOM/ZOOLOGY 302	Introduction to Entomology	4
ENTOM 351	Principles of Economic Entomology	3

**ATMOSPHERIC SCIENCE**

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN/ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3

**BIOLOGICAL SYSTEMS ENGINEERING**

Code	Title	Credits
BSE 301	Land Information Management	3

**FOOD SCIENCE**

Code	Title	Credits
FOOD SCI 120	Science of Food	3
FOOD SCI 440	Principles of Food Engineering	3
A A E/C&E SOC/SOC 340	Issues in Food Systems	3-4
NUTR SCI/BIOCHEM 510	Nutritional Biochemistry and Metabolism	3

**MANAGEMENT**

Code	Title	Credits
ACCT I S 211	Introductory Managerial Accounting	3
ACCT I S 301	Financial Reporting I	3
ACCT I S 302	Financial Reporting II	3
A A E 320	Agricultural Systems Management	3
A A E 322	Commodity Markets	4
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	3

A A E 419	Agricultural Finance	3
A A E/ECON 421	Economic Decision Analysis	4
A A E/ECON 474	Economic Problems of Developing Areas	3
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
FINANCE/ ECON 300	Introduction to Finance	3
INTL BUS 200	International Business	3
MARKETNG 305	Consumer Behavior	3
MARKETNG 310	Marketing Research	3
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
MARKETNG 424	Sales Strategy and Management	3
MARKETNG 426	Strategic Retailing	3
MARKETNG 460	Marketing Strategy	3
M H R 420	Managing Change and Organizational Effectiveness	3
M H R 422	Entrepreneurial Management	3
M H R 612	Labor-Management Relations	3
R M I 300	Principles of Risk Management	3

## NUTRITIONAL SCIENCE

Code	Title	Credits
NUTR SCI 132	Nutrition Today	3
NUTR SCI/AN SCI/ DY SCI 311	Comparative Animal Nutrition	3
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition	3

## SOIL SCIENCE

Code	Title	Credits
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 325	Soils and Landscapes	3

## BACTERIOLOGY, BIOCHEMISTRY, GENETICS

Code	Title	Credits
MICROBIO 101	General Microbiology	3
MICROBIO 102	General Microbiology Laboratory	2
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	2
MICROBIO/ FOOD SCI 325	Food Microbiology	3
BIOCHEM 501	Introduction to Biochemistry	3
GENETICS 466	Principles of Genetics	3

## ECOLOGICAL SCIENCES

Code	Title	Credits
F&W ECOL/ ENVIR ST 100	Forests of the World	3
F&W ECOL 318	Principles of Wildlife Ecology	3
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin	4
F&W ECOL/ BOTANY/ ZOOLOGY 460	General Ecology	4
F&W ECOL 550	Forest Ecology	3

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Articulate the role of biological processes, management systems, environmental influences, and economic and social factors on world food, feed, and fiber production. Specific topics that all students should have knowledge of include: photosynthesis, nutrient cycling, genetic inheritance, and management and uses of primary U.S. crop species.
2. Develop a global perspective and appreciate the interdependencies among individuals and their workplaces, communities, environments, and the planet; and an understanding of the role of science in society.
3. Communicate effectively through writing and speaking, and will be able to identify and critically evaluate available sources of information.
4. Demonstrate the ability to critically and creatively analyze problems and evaluate systems.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE AGRONOMY FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
AGRONOMY 100	4	BOTANY/ BIOLOGY 130	5
CHEM 103 or 109	4-5	CHEM 104 (or Elective)	5
MATH 112, 114, or 171 <sup>1</sup>	3-5	Elective	3
COMM A	3	ECON 101, 111, or A A E 215	4
First Year Seminar	1		

**15-18** **17**

#### Second Year

Fall	Credits	Spring	Credits
Foundation Course <sup>2</sup>	3	Foundation Courses	5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	5	Social Science Course	3
Statistics Course	3	Agronomy Course <sup>3</sup>	3
Ethnic Studies Course	3	COMM B	3

**14** **14**

#### Third Year

Fall	Credits	Spring	Credit	Summer	Credits
Agronomy Courses	6	ENTOM/ ZOOLOGY 302 or 351	3-4	Internship or Agronomy Independent Study	1-3
GENETICS 466	3	Agronomy Course	3		
SOIL SCI 301 & SOIL SCI 302	4	International Studies Course	3		
Elective	3	Humanities Elective Course	3		
		Elective	3		

**16** **15-16** **1-3**

#### Fourth Year

Fall	Credits	Spring	Credits
Agronomy Course	3-4	Agronomy Course	6-7
ZOOLOGY/ BOTANY/ F&W ECOL 460	4	AGRONOMY 50	2
PL PATH 300	4	Electives	6-9
Humanities Course	3		

Elective 3

**17-18**

**14-18**

**Total Credits 123-134**

1

Determined by placement exam. Consult SOAR advisor.

2

Eight (8) credits of Foundation courses required. See Requirements tab for details.

3

Fourteen (14) credits of agronomy electives required. See Requirements tab for details.

## ADVISING AND CAREERS

### ADVISING

The Department of Agronomy is faculty-advised, meaning that faculty members take on the responsibility of guiding and advising undergraduates through graduation. Students and faculty are matched as closely as possible by interest. All new freshmen and transfer students are temporarily advised by the student services coordinator until the advising relationship between professor and student is established. If you would like to have a conversation about joining the Department of Agronomy, please contact agronomy@wisc.edu.

### CAREERS

An Agronomy degree is an open door to careers in many related fields such as biotechnology, plant genetics, crop management, agricultural financial management, farming, seed sales, crop consulting, Certified Crop Advising, Certified Professional Agronomy, agribusiness, extension agronomy, agricultural education, government work, and international agronomy.

### GENETICS

The fastest growing sector of agriculture is plant breeding, genetics, and genomics. Plant scientists are working at the field, plant, cellular, and molecular level to create cultivars that are hardier, disease resistant, nutritious, and affordable. The industry's growth is currently outstripping the rate of graduation; graduates can take their pick of interesting, fulfilling careers in the public and private sectors.

### BIOFUELS

The biofuel industry is also experiencing rapid growth, with research and development being focused on sugar-based biofuels, cellulosic biofuels, and biodiesels, made from plants as varied as switchgrass, sugar cane, corn, and wood pulp. These energy crops are harvested and processed into alternatives to fossil fuels.

### AGRIBUSINESS

In agribusiness, agronomists take data and translate it into real world applications. They sell tools for crop production, provide agricultural loans, consult on crops, manage businesses, and much more. They are often responsible for translating technical research data into applications. Numerous agronomy graduates are also involved in the sale of agricultural products, which are vital to today's economy. Other successful agronomists serve as crop advisers, farm managers, consultants, bank loan specialists, managers, and much more.

## RESEARCH/EDUCATION AND EXTENSION

Agronomic educators specialize in teaching and working with high school and college students. They also teach and advise students who chose advanced studies for a master's degree and/or Ph.D. They are extensively involved in research, publishing findings on a regular basis and making scientific advances.

Extension agronomists usually work for a state, local, or national government; they consult with farmers and others to help find answers to their specific problems and help farmers translate research results into usable management practices. Government-employed agronomists also work with farmers and ranchers to plan for soil and water conservation so crops and land can be managed efficiently and with minimal impact to the environment.

## PEOPLE

### PROFESSORS

Ané, Jean-Michel  
 Conley, Shawn  
 de Leon, Natalia  
 Duke, Stan  
 Henson, Cynthia  
 Gutierrez, Lucia  
 Jackson, Randy  
 Jahn, Molly  
 Kaepler, Shawn  
 Kucharik, Chris (chair)  
 Lauer, Joe  
 Renz, Mark  
 Stoltenberg, Dave  
 Tracy, William

### ASSOCIATE PROFESSORS

Kaepler, Heidi

### ASSISTANT PROFESSORS

Picasso, Valentin  
 Werle, Rodrigo

For more information about our faculty and their research interests, visit our departmental website (<https://agronomy.wisc.edu/people/faculty/>).

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in agronomy, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- Badger Crops Club (<https://www.facebook.com/badgercropsclub/>), a professional, social, and educational group for agronomy students and students in related fields interested in any aspect of crop production.
- Collegiate FFA (<http://collegiateffamadison.weebly.com/>), an official collegiate chapter of the National FFA organization.
- AWA (<http://awamadison.org/>)—the Association of Women in Agriculture, a professional student organization for young women with a passion for agriculture.
- WISELI (<http://wiseli.engr.wisc.edu/>)—Women in Science and Engineering Leadership Institute, a research center aiming to increase the representation, advancement, and satisfaction of women faculty

and members of groups currently underrepresented on the faculty and in leadership at UW–Madison.

- Study Abroad: Agronomy majors have the opportunity to go on experiential study abroad programs, where students can immerse themselves in research or global agronomy field experiences. Students can review the International Academic Programs website (<https://studyabroad.wisc.edu/>) and the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>) for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Research/Lab experience: Students are encouraged to get involved in research, whether in the agronomy department or through other plant-, soil-, or ecology-related departments. Research can be performed for either course credit or pay, depending on the opportunity. Research opportunities can primarily be found by inquiring with faculty members.

## RESOURCES AND SCHOLARSHIPS

The Department of Agronomy is proud to participate in the CALS Scholarship Program, which awards thousands of dollars to undergraduate scholars every year. The majority of our students have some form of financial aid through CALS, the university, or work-study or laboratory jobs.

In addition, the department awards funds every year to students who wish to study abroad.

## ANIMAL AND DAIRY SCIENCES

The Department of Animal and Dairy Sciences is the home of undergraduate and graduate programs in animal sciences and dairy science. It has a long and proud history of groundbreaking discoveries in animal nutrition, physiology, genetics, management, and muscle biology, which are coupled with excellence in the emerging fields of animal welfare, digital agriculture, and animal biologics to generate new knowledge and solve practical problems. The department is interdisciplinary, and the interests and skillsets of our faculty and graduate students range from molecular biology to animal care and management. Virtually all of our work happens in a biological context, with an eye toward advancing our understanding of animal biology, improving the lives of domestic animals, enhancing the sustainability of animal agriculture, and improving human health and nutrition.

The department was formed as a merger of the Department of Animal Sciences and the Department of Dairy Science in 2020, as a culmination of a long-stranding, interdependent relationship that includes sharing the Animal Sciences Building at 1675 Observatory Drive, cross-listing and co-teaching many core courses, and collaborating on countless research projects and outreach programs.



## DEGREES/MAJORS/CERTIFICATES

- Animal and Veterinary Biosciences, B.S. (p. 73)
- Animal Sciences, B.S. (p. 79)
- Dairy Science, B.S. (p. 85)

## PEOPLE

# ANIMAL AND DAIRY SCIENCES DEPARTMENT

### Professors

Weigel, Kent (Chair)  
 Khatib, Hasan (Associate Chair)  
 Adcock, Sarah  
 Arriola Apelo, Sebastian  
 Cabrera, Victor  
 Claus, Jim  
 Crenshaw, Thomas  
 Dorea, Joao  
 Ferraretto, Luiz  
 Fricke, Paul  
 Guo, Wei  
 Hernandez, Laura  
 Kirkpatrick, Brian  
 Laporta, Jimena  
 Leone, Vanessa  
 Mantovani, Hilario  
 Ortega, Sofia  
 Parrish, John  
 Peñagaricano, Francisco  
 Reed, Jess  
 Richards, Mark  
 Ricke, Steve  
 Rosa, Guilherme  
 Shanmuganayagam, Dhanansayan (Dhanu)  
 Sindelar, Jeffrey  
 Van Os, Jennifer  
 Wattiaux, Michel  
 White, Heather  
 Wiltbank, Milo

### Instructors/Lecturers

Halbach, Theodore  
 Kean, Ron  
 O'Rourke, Bernadette  
 Ronk, Eric

### Undergraduate Advisor

Sandberg, Liv

Link to: <https://andysci.wisc.edu/about-us/faculty-and-staff/>

## ANIMAL AND VETERINARY BIOSCIENCES, B.S.

Studying the biology of domesticated animals helps us better understand their health. The major addresses important issues related to animal health and welfare, biomedical advancements, food safety, precision livestock farming, and land and water stewardship.

Students in the Animal and Veterinary Biosciences major learn about cattle, swine, sheep, horses, poultry, and goats, as well as companion animals such as cats and dogs. They also examine recent discoveries connecting human and animal health.

The Department of Animal and Dairy Sciences is home to the undergraduate program in Animal and Veterinary Biosciences. The department produces skilled leaders in animal agriculture and sustainable food systems while embracing innovation and technology. A 10:1 student-faculty ratio and small classes allow for meaningful connections among students and instructors.

Students can take courses on an assortment of topics including animal breeding, veterinary genetics, animal health and welfare, physiology, and animal nutrition utilizing various animals as a vehicle for learning. The major offers a science-focused path for students interested in veterinary medicine, animal science, bioscience, or other graduate programs.

## LEARN THROUGH HANDS-ON, REAL WORLD EXPERIENCES

The program emphasizes hands-on learning, and students choose from more than a dozen lab courses covering animal handling, reproductive biology, veterinary genetics, animal welfare, meat science and biologics, and more. Field courses look at international agriculture and sustainability. The department encourages Animal and Veterinary Biosciences majors to get involved with internships and research with faculty and staff.

## BUILD COMMUNITY AND NETWORKS

Animal and Veterinary Biosciences majors find a welcoming community where professors know their students and can provide guidance based on their specific goals. Outside of the classroom, students can join several student organizations including the Pre-Veterinary Association (<https://win.wisc.edu/organization/prevetassociation/>), Saddle and Sirloin Club (<https://win.wisc.edu/organization/saddleandsirloin/>), Poultry Club (<https://www.facebook.com/PoultryClubUWMadison/>), Badger Dairy Club (<https://win.wisc.edu/organization/badgerdairyclub/>), and Badger Meat Science Club. (<https://win.wisc.edu/organization/badgermeatscienceclub/>)

## CUSTOMIZE A PATH OF STUDY

Students can choose from a variety of breadth and depth courses to explore their interests within the major, customizing their coursework to fit their career goals. Course flexibility allows students to complete several pre-veterinary requirements, a certificate, or double major within the curriculum. Students can elect to complete Honors in Animal and Veterinary Biosciences.

## MAKE A STRONG START

The department offers an introductory seminar course that helps students maximize their education, develop professional skills, and make informed decisions about their classes, internships, and career path. Multiple Animal Sciences courses are open to first-year students offering additional opportunities to establish connections to the major.

## GAIN GLOBAL PERSPECTIVE

Students are encouraged to study abroad; the department offers globally focused courses that look at livestock production, health, animal agriculture, and sustainable development. Students can explore

studying abroad as an Animal and Veterinary Biosciences major utilizing the Animal and Veterinary Biosciences Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/animal-and-veterinary-biosciences/>). Students work with their advisor and the CALS study abroad office (<https://cals.wisc.edu/academics/undergraduate/current-students/study-abroad/>) to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college

requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### SUMMARY OF MAJOR REQUIREMENTS

Code	Title	Credits
<b>Major Requirements</b>		
	Mathematics and Science Foundation	19-25
	Animal & Veterinary Biosciences Core Requirements	37-38
	Capstone in Major	2-3
<b>Total Credits</b>		<b>58-66</b>

### ANIMAL & VETERINARY BIOSCIENCES MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics</b>		
Complete one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry	
<b>Statistics</b>		
Complete one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Complete one of the following:		5-9

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II
CHEM 109	Advanced General Chemistry

**Biology**

Complete one of the following: 5

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory

**Biochemistry**

Complete one of the following: 3

BIOCHEM 301	Survey of Biochemistry
BIOCHEM 501	Introduction to Biochemistry

**Introduction to the Major**

Complete the following: 4

AN SCI/ DY SCI 101	Introduction to Animal Sciences
AN SCI/ DY SCI 102	Introduction to Animal Sciences Laboratory

**Animal Science Core**Complete four courses from the following: <sup>1</sup> 11-12

AN SCI 245	Animal Welfare
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition
AN SCI/ DY SCI 320	Animal Health and Disease
AN SCI/ DY SCI 361	Introduction to Animal and Veterinary Genetics
AN SCI/ DY SCI 373	Animal Physiology

**Animal Biology Depth**

Complete at least 10 credits from the following: 10

AN SCI 245	Animal Welfare <sup>1</sup>
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition <sup>1</sup>
AN SCI/ DY SCI 320	Animal Health and Disease <sup>1</sup>
AN SCI 336	Animal Growth and Development
AN SCI/ DY SCI 361	Introduction to Animal and Veterinary Genetics <sup>1</sup>
AN SCI/ DY SCI 362	Veterinary Genetics
or AN SCI/ DY SCI 363	Principles of Animal Breeding
AN SCI 366	Concepts in Genomics
AN SCI/ DY SCI 373	Animal Physiology <sup>1</sup>
DY SCI 378	Lactation Physiology
AN SCI/ DY SCI 414	Ruminant Nutrition & Metabolism

AN SCI 415	Application of Monogastric Nutrition Principles
AN SCI 420	Microbiomes of Animal Systems
AN SCI/ DY SCI 434	Reproductive Physiology

**Major Breadth**

Complete at least 12 credits from the following: 12

AN SCI 200	The Biology and Appreciation of Companion Animals
DY SCI 233	Dairy Herd Management I
DY SCI 234	Dairy Herd Management II
AN SCI/BSE 344	Digital Technologies for Animal Monitoring
AN SCI 399	Coordinative Internship/ Cooperative Education (Footnote 2 applies to both AN SCI 399 and 699) <sup>2</sup>
or AN SCI 699	Special Problems
A A E 422	Food Systems and Supply Chains
AN SCI 431	Beef Cattle Production
AN SCI 432	Swine Production
AN SCI/ FOOD SCI 515	Commercial Meat Processing
DY SCI 534	Reproductive Management of Dairy Cattle
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology
or BIOLOGY/ BOTANY 130	General Botany
CHEM 343	Organic Chemistry I
PHYSICS 103	General Physics
MICROBIO 303	Biology of Microorganisms
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology

**Capstone in Major**

Complete one of the following: 2-3

AN SCI 435	Animal Sciences Proseminar
DY SCI 535	Dairy Farm Management Practicum

**Total Credits 58-66****1**

Courses cannot count for both Animal Science Core and Depth.

**2**

Maximum of 3 credits.

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

**Admission Criteria for New First-Year Students:**

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

### HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

### REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

### REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take AN SCI 681 (<https://guide.wisc.edu/search/?P=AN%20SCI%20681>) Senior Honor Thesis and AN SCI 682 (<https://guide.wisc.edu/search/?P=AN%20SCI%20682>) Senior Honors Thesis when completing their thesis project; please see the Honors Program page (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Define biological processes and explain their role in animal health and management
2. Apply scientific concepts and critical thinking skills to identify and analyze real world problems in animal and veterinary biosciences
3. Develop scientific competencies and communication skills needed for advanced careers in animal or veterinary biosciences

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

Below you will find three sample four-year plans. These plans represent a range of interest and career-based options for completing the Animal and Veterinary Biosciences major. Your individual plan will look different from these plans. You should customize your own program of study in consultation with your advisor.

### FOUR-YEAR PLAN - VETERINARY INTEREST <sup>1</sup>

#### First Year

Fall	Credits	Spring	Credits
AN SCI/DY SCI 101		3 CHEM 103	4
AN SCI/DY SCI 102		1 Major Breadth	3
AN SCI 135 (CALS First-Year Seminar)		1 AN SCI 200 (Animal Science Breadth)	3
Humanities Breadth		3 General Education	3
MATH 112 or 114		3-5 Ethnic Studies	3
COMM A		3	
			<b>14-16</b>
			<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151		5 ZOOLOGY/BIOLOGY/BOTANY 152 (Major Breadth)	5
STAT 301		3 CHEM 343 (Major Breadth)	3
CHEM 104		5 General Education	3
AN SCI 245		3 AN SCI/DY SCI 320 (Animal Science Core)	3
			<b>16</b>
			<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
PHYSICS 103 (Major Breadth)		4 AN SCI/DY SCI/NUTR SCI 311	3
AN SCI/DY SCI 434 (Animal Biology Depth) <sup>2</sup>		3 AN SCI/DY SCI 361 & AN SCI/DY SCI 362 (Animal Science Core and Animal Biology Depth)	4
AN SCI 336 (Animal Biology Depth)		3 COMM B	3
CALS International Studies		3 Electives <sup>3</sup>	4

BIOCHEM 501	3		
	<b>16</b>		<b>14</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
AN SCI 435 (Capstone)	2	AN SCI/DY SCI 373 (Animal Biology Depth)	3
Electives <sup>3</sup>	12-14	Electives <sup>3</sup>	11-12
	<b>14-16</b>		<b>14-15</b>

**Total Credits 118-123**

1

This four-year plan reflects the minimum required coursework for UW-Madison School of Veterinary Medicine as of 2022-2023. Course requirements may vary among schools of veterinary medicine. Consult with your institution of choice and your advisor to ensure that the courses you select meet specific requirements.

2

Pre-vet students with a focus on dairy could select an alternate set of dairy-focused courses to meet Animal Biology Depth and Capstone requirements (DY SCI 378, DY SCI/AN SCI 414, DY SCI 534, and DY SCI 535)

Animal Biology Depth courses can be moved to 4th year to allow for certificate coursework during the first three years.

3

Electives will include additional coursework for veterinary school preparation.

**FOUR-YEAR PLAN - ANIMAL PRODUCTION INTEREST****First Year**

Fall	Credits	Spring	Credits
AN SCI/DY SCI 101	3	ZOOLOGY/ BIOLOGY 101	3
AN SCI/DY SCI 102	1	A A E 215 (Social Science Breadth)	4
AN SCI 135 (CALS First- Year Seminar)	1	COMM B	3
Humanities Breadth	3-5	Ethnic Studies	3
COMM A	3	Elective	3
MATH 112 or 114	3		
	<b>14-16</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
ZOOLOGY/ BIOLOGY 102	2	CHEM 104	5
STAT 301 or 371	3	AN SCI/DY SCI 320 (Animal Science Core)	3
CHEM 103	4	AN SCI/BSE 344 (Animal Biology Depth)	3
AN SCI 245 (Animal Science Core)	3	Electives	3
General Education	3		
	<b>15</b>		<b>14</b>

**Third Year**

Fall	Credits	Spring	Credits
AN SCI 336 (Animal Biology Depth)	3	BIOCHEM 301	3
AN SCI/DY SCI 434 (Animal Biology Depth)	3	AN SCI/DY SCI/ NUTR SCI 311 (Animal Science Core)	3
CALS International Studies	3	AN SCI/DY SCI 361 (Animal Science Core)	2
General Education	3	AN SCI/DY SCI 363 (Animal Biology Depth)	2
Electives	3	A A E 422 (Major Breadth)	3
	<b>15</b>		<b>13</b>

**Fourth Year**

Fall	Credits	Spring	Credits
AN SCI 435 (Capstone)	2	AN SCI 432 (Major Breadth)	3
AN SCI 431 (Major Breadth)	3	Electives	11-12
AN SCI/DY SCI 414 (Animal Biology Depth)	3		
Electives	8		
	<b>16</b>		<b>14-15</b>

**Total Credits 117-120****FOUR-YEAR PLAN - GENERAL ANIMAL AND VETERINARY BIOSCIENCES INTEREST****First Year**

Fall	Credits	Spring	Credits
AN SCI/DY SCI 101	3	CHEM 103	4
AN SCI/DY SCI 102	1	Animal Biology Depth	3
Humanities Breadth	3	Ethnic Studies	3
AN SCI 135 (CALS First- Year Seminar)	1	Elective	3
MATH 112 or 114	3-5	Social Science Breadth	3
COMM A	3		
	<b>14-16</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151	5	BIOLOGY/BOTANY/ ZOOLOGY 152 (Major Breadth)	5
STAT 301 or 371	3	Major Breadth	3
CHEM 104	5	CALS International Studies	3
Animal Science Core	3	Animal Science Core	3
	<b>16</b>		<b>14</b>

**Third Year**

Fall	Credits	Spring	Credits
Major Breadth	3-4	Animal Biology Depth	3
Animal Biology Depth	3	Major Breadth	3-4
Animal Biology Depth	3	Elective or Breadth	3

General Education	3 COMM B	3
BIOCHEM 301	3 Elective	3
<b>15-16</b>		<b>15-16</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
AN SCI 435 or DY SCI 535	2-3 Animal Science Core	3
Animal Biology Depth	3 Animal Science Core	3
Electives	10 Electives	8
<b>15-16</b>		<b>14</b>
<b>Total Credits 119-124</b>		

Ricke, Steve  
 Rosa, Guilherme  
 Shanmuganayagam, Dhanansayan (Dhanu)  
 Sindelar, Jeffrey  
 Van Os, Jennifer  
 Wattiaux, Michel  
 White, Heather  
 Wiltbank, Milo

#### Instructors/Lecturers

Halbach, Theodore  
 Kean, Ron  
 O'Rourke, Bernadette  
 Ronk, Eric

#### Undergraduate Advisor

Sandberg, Liv

Link to: <https://andysci.wisc.edu/about-us/faculty-and-staff/>

## ADVISING AND CAREERS

### ADVISING

Each student receives one-on-one guidance from their professional advisor. Academic advisors will help students build an individualized, four-year plan. Many Animal and Veterinary Biosciences majors complete certificates or double majors. Customary examples include Life Sciences Communication, Genetics and Genomics, Global Health, CALS Business Management, and opportunities outside of CALS such as foreign languages, depending on the students' interests.

### CAREER OPPORTUNITIES

All students have a faculty mentor to assist with their career planning.

Students graduating with a degree in Animal and Veterinary Biosciences can enter a number of career fields. These include nutrition and genetics, health and welfare, animal management and monitoring technology, meat science and biologics, food and animal research, and teaching. Many students go on to pursue professional education in veterinary medicine, graduate programs in animal science, or human medicine.

## PEOPLE

### ANIMAL AND DAIRY SCIENCES DEPARTMENT

#### Professors

Weigel, Kent (Chair)  
 Khatib, Hasan (Associate Chair)  
 Adcock, Sarah  
 Arriola Apelo, Sebastian  
 Cabrera, Victor  
 Claus, Jim  
 Crenshaw, Thomas  
 Dorea, Joao  
 Ferraretto, Luiz  
 Fricke, Paul  
 Guo, Wei  
 Hernandez, Laura  
 Kirkpatrick, Brian  
 Laporta, Jimena  
 Leone, Vanessa  
 Mantovani, Hilario  
 Ortega, Sofia  
 Parrish, John  
 Peñagaricano, Francisco  
 Reed, Jess  
 Richards, Mark

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Animal and Veterinary Biosciences majors take part in a number of internships around campus and beyond. Past students interned at veterinary clinics and hospitals, genetics companies, animal feed companies, Extension, food companies, farms, animal pharmaceutical companies, animal councils, humane societies, and more.

On campus opportunities at department animal care facilities, UW veterinary school, and at Bucky's Varsity Meats, give students hands-on experience each semester.

### RESEARCH EXPERIENCE

There are numerous opportunities to conduct research with faculty and staff in the department. Around 75 percent of Animal and Veterinary Biosciences majors have completed independent study projects. Several research stipends are available and some students also take part in research as part of an honors thesis.

### STUDENT ORGANIZATIONS

By joining a student organization, Animal and Veterinary Biosciences majors connect with other students and build relationships with faculty and staff. Organizations of particular interest to Animal and Veterinary Biosciences students include Pre Vet Association (<https://win.wisc.edu/organization/prevetassociation/>), Saddle and Sirloin Club (<https://win.wisc.edu/organization/saddleandsirloin/>), Poultry Club (<https://www.facebook.com/PoultryClubUWMadison/>), Badger Dairy Club (<https://win.wisc.edu/organization/badgerdairyclub/>), and Badger Meat Science Club (<https://win.wisc.edu/organization/badgermeatscienceclub/>).

There are additional opportunities for students to get involved in animal or agriculture related organizations on campus such as Hooper Riding Club (<https://www.hooferriding.org/>), Association of Women in Agriculture (<http://awamadison.org/>), Babcock House ([https://win.wisc.edu/organization/babcock\\_house/](https://win.wisc.edu/organization/babcock_house/)), and Collegiate FFA (<http://collegiateffamadison.weebly.com/>).

## GLOBAL ENGAGEMENT

The department encourages students to study abroad and offers globally focused courses that look at animal health, animal agriculture, and sustainable development. Students can find more information on the International Academic Programs website (<https://www.studyabroad.wisc.edu/>) and the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

## COMMUNITY ENGAGEMENT AND VOLUNTEERING

Animal and Veterinary Biosciences students engage in a number of volunteer opportunities including working at the Livestock Lab, the Poultry Research Lab, the Dairy Cattle Center, Bucky's Varsity Meats, and Animal Farm Units. Students also participate in undergraduate student recruitment events, 4-H and Extension events, Dane County Humane Society, and spay/neuter clinics.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

The Animal and Veterinary Biosciences program awards \$25,000 – 35,000 in annual scholarships. Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

Campus facilities offering students hands-on experiences:

- The Livestock Laboratory accommodates research on multiple species and includes a surgery room.
- The Poultry Research Laboratory houses chickens and other birds.
- The state-of-the-art Meat Science & Animal Biologics Discovery Building houses a meat processing facility, retail shop, and advanced laboratories.
- A network of off-campus Agricultural Research Stations serve as living laboratories for agricultural animal research.
- The School of Veterinary Medicine Animal clinics and research labs offer experiences for undergraduate students.
- The Dairy Cattle Center houses more than 80 dairy cows on campus in a tie-stall barn.

## ANIMAL SCIENCES, B.S.

**Admissions to the Animal Science B.S. will be suspended as of spring 2024 and will be discontinued as of fall 2028. If you have any questions, please contact the department.**

**Students interested in the Animal Sciences BS may be interested in the Animal and Veterinary Biosciences BS (p. 73), a new major as of Fall 2023.**

### OVERVIEW

Studying the biology of domesticated animals helps us better understand their health. The major addresses important issues related to animal health and welfare, biomedical advancements, food safety, precision livestock farming, and land and water stewardship.

Students in the animal sciences major learn about cattle, swine, sheep, horses, poultry, and goats, as well as companion animals. They also examine recent discoveries connecting human and animal health.

The Department of Animal and Dairy Sciences is home to the undergraduate program in animal sciences. It produces skilled leaders in animal agriculture and sustainable food systems while embracing innovation and technology. A 10:1 student-faculty ratio and small classes allow for meaningful connections among students and instructors.

Students can take courses on an assortment of topics including animal breeding, veterinary genetics, animal health and welfare, animal nutrition, and companion animals including dogs and cats, and more. The major offers a science-focused path for students interested in veterinary medicine, animal science, medicine, or other graduate programs. Students can also focus on the business of animal sciences with classes in economics, accounting, marketing, farm management, and other courses.

### Learn through hands-on, real world experiences

The program emphasizes hands-on learning, and students choose from more than a dozen lab courses covering animal handling, reproductive biology, veterinary genetics, meat processing, animal welfare, and more. Field courses look at international agriculture and sustainability. The department encourages animal sciences majors to get involved with internships and research with faculty and staff.

### Build community and networks

Animal sciences majors find a welcoming community where professors know their students and can provide guidance based on their specific goals. Outside of the classroom, students can join several student organizations including the Pre Vet Club (<https://win.wisc.edu/organization/prevetassociation/>), Badger Meat Science Club (<https://win.wisc.edu/organization/badgermeatscienceclub/>), Saddle and Sirloin Club (<https://win.wisc.edu/organization/saddleandsirloin/>), and Poultry Club (<https://www.facebook.com/PoultryClubUWMadison/>). Competitions, such as animal welfare assessment and meat judging offer students unique networking experiences in the industry.

### Customize a path of study

The variety of classes in the department, including paths that emphasize science or business, allows animal sciences students to customize their coursework to fit their career goals. Students can elect to complete Honors in Animal Sciences.

### Make a strong start

The department offers an introductory seminar course that helps students maximize their education, develop professional skills, and make informed decisions about their classes, internships, and career opportunities.

### Gain global perspective

Students are encouraged to study abroad; the department offers globally focused courses that look at livestock production, health, animal agriculture, and sustainable development. Students can explore studying abroad as an Animal Sciences major utilizing the Animal Sciences Major

Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

**Admissions to the Animal Science B.S. will be suspended as of spring 2024 and will be discontinued as of fall 2028. If you have any questions, please contact the department.**

**Students interested in the Animal Sciences BS may be interested in the Animal and Veterinary Biosciences BS (p. 73), a new major as of Fall 2023.**

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and

major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103 or CHEM 108 or CHEM 109	General Chemistry I Chemistry in Our World Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam): <sup>1</sup>		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
Select one of the following:		3-4
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Select one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following:		13
Option 1:		



BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
Option 2:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
<b>Genetics</b>		
GENETICS 466	Principles of Genetics	3
<b>Animal Sciences Core<sup>2</sup></b>		
AN SCI/DY SCI 101	Introduction to Animal Sciences	3
AN SCI/DY SCI 102	Introduction to Animal Sciences Laboratory	1
AN SCI/FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
or AN SCI/ DY SCI 363	Principles of Animal Breeding	
AN SCI/DY SCI 373	Animal Physiology	3
or AN SCI/ DY SCI 434	Reproductive Physiology	
<b>Animal Science Depth</b>		
Select 12 credits from animal science depth courses <sup>2</sup>		12
<b>Emphasis</b>		
Select an emphasis		24-25
<b>Capstone</b>		
AN SCI 435	Animal Sciences Proseminar	2
<b>Total Credits</b>		<b>88-96</b>

1

Science Emphasis students may choose to complete MATH 171 Calculus with Algebra and Trigonometry I and MATH 217 Calculus with Algebra and Trigonometry II in place of MATH 114 Algebra and Trigonometry and MATH 221 Calculus and Analytic Geometry 1.

2

A course cannot be used for credit in both the Core and Depth within major sections.

## DEPTH COURSES

Code	Title	Credits
Select 12 credits from the following:		
AN SCI/ FOOD SCI 321	Food Laws and Regulations	1
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
or AN SCI/DY SCI 363	Principles of Animal Breeding	
AN SCI 366	Concepts in Genomics	3
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development <sup>1</sup>	3
AN SCI/DY SCI 373	Animal Physiology	3
or AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
AN SCI/DY SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	1
AN SCI/DY SCI/ FOOD SCI/ SOIL SCI 473	International Field Study in Animal Agriculture and Sustainable Development	2
AN SCI/FOOD SCI 515	Commercial Meat Processing	2
Up to 3 credits from courses listed below can go toward the required 12 credits of depth:		3
AN SCI 399	Coordinative Internship/ Cooperative Education	
AN SCI 681	Senior Honor Thesis	
AN SCI 682	Senior Honors Thesis	
AN SCI 699	Special Problems	

1

Meets CALS International Studies requirement.

## EMPHASIS COURSES

### SCIENCE EMPHASIS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
PHYSICS 103	General Physics	4
CHEM 343	Organic Chemistry I	3
BIOCHEM 501	Introduction to Biochemistry	3
Select 9 credits from the following:		9
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Organic Chemistry II	
MICROBIO 303	Biology of Microorganisms	

MICROBIO 304	Biology of Microorganisms Laboratory	
M M & I 341	Immunology	
M M & I/PATH-BIO 528	Immunology	
PHYSICS 104	General Physics	
PSYCH 449	Animal Behavior	
<b>Total Credits</b>		<b>24</b>

## BUSINESS EMPHASIS

Up to two courses may be applied to Certificate in Business Mgmt. for Ag. & Life Sciences.

Code	Title	Credits
A A E 215	Introduction to Agricultural and Applied Economics <sup>1</sup>	4
or ECON 101	Principles of Microeconomics	
A A E 320	Agricultural Systems Management	3
A A E 322	Commodity Markets	4
Select one of the following:		3
M H R 305	Human Resource Management	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
Select one of the following:		3
BIOCHEM 301	Survey of Biochemistry	
CHEM 341	Elementary Organic Chemistry	
BIOCHEM 501	Introduction to Biochemistry	
Select 9 credits from the following:		9
A A E 419	Agricultural Finance	
ACCT I S 100	Introductory Financial Accounting	
or ACCT I S 300	Accounting Principles	
AGRONOMY/HORT/SOIL SCI 326	Plant Nutrition Management	
ECON/FINANCE 300	Introduction to Finance	
M H R 300	Managing Organizations	
MARKETNG 300	Marketing Management	
MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 221	Calculus and Analytic Geometry I	
MICROBIO 303	Biology of Microorganisms	
MICROBIO 304	Biology of Microorganisms Laboratory	
PHYSICS 103	General Physics	
SOIL SCI 301	General Soil Science	
<b>Total Credits</b>		<b>26</b>

1

A A E 215 Introduction to Agricultural and Applied Economics not accepted as a prerequisite for some advanced Business courses.

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take AN SCI 681 Senior Honor Thesis and AN SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Knowledge and comprehension) Develop the working vocabulary of an animal scientist, a working knowledge of the basic anatomy, biochemistry, physiology, and genetics of animal and meat biology, and the applied nutrition, breeding, product harvest and processing skills, necessary to manage animal production systems. Demonstrate knowledge through rigorous examination and demonstration through hands-on instructional laboratory activities.
- (Analytical processing) Develop the ability to reduce complex datasets and scientific information into meaningful relationships and correlations, and using the scientific literature, develop hypotheses to test the cause of predicted relationships using the scientific method. Demonstrate skills through a senior capstone experience and through individualized research opportunities and instructional activities.
- (Integration for application) Apply knowledge to develop solutions to real world problems. Identify problems yet to be investigated and in need of advanced study. Ability to integrate and apply knowledge is demonstrated through our internship programs, animal related job experiences, club activities, and problems sets that students solve in exams and laboratory settings.
- (Critical thinking) Find their sources of information using peer reviewed research articles. Learn not only to question popular press, but understand that even in the scientific literature there are contradictory findings. Capacity to synthesize scientific literature such that they can communicate a position backed with strong scientific support. Skills are demonstrated through the reading, writing and discussion of science-based papers in key courses during their educational process and through an oral presentation in their capstone course.
- (Effective communication) Communicate, both in writing and orally, the science behind the biology and management of domestically farmed animals. Communications provide new insights into animal production, and are explained in a manner fitting with the audience. Ability to communicate is measured by their effectiveness in presenting research posters and presentations, their analysis of the literature in papers and presentations in class and during their senior capstone course.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE ANIMAL SCIENCES FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
AN SCI/DY SCI 101	3	CHEM 104	5
AN SCI/DY SCI 102	1	AN SCI Elective	1-3
AN SCI 135	1	Social Science (or Humanities)	3

CHEM 103	4	Ethnic Studies (or CALS International Studies)	3
MATH 113 or 114	3-5		
COMM-A	3		
<b>15-17</b>		<b>12-14</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151	5	ZOOLOGY/BIOLOGY/BOTANY 152	5
STAT 371	3	Emphasis Course <sup>1</sup>	3
Emphasis Course <sup>1</sup>	3-4	Humanities (or Social Science)	6
CALS International Studies (or Ethnic Studies)	3		
<b>14-15</b>		<b>14</b>	

#### Junior

Fall	Credits	Spring	Credits
AN SCI/DY SCI 434	3	AN SCI/DY SCI/NUTR SCI 311	3
GENETICS 466	3	AN SCI/DY SCI 320	3
Emphasis Course	3	An Sci Depth <sup>2</sup>	3
AN SCI Depth Course	3	AN SCI/DY SCI 361 <sup>3</sup>	2
AN SCI/FOOD SCI 305	4	AN SCI/DY SCI 362 or 363 <sup>3</sup>	2
		Emphasis Course	3
<b>16</b>		<b>16</b>	

#### Senior

Fall	Credits	Spring	Credits
AN SCI 435	2	An Sci Depth	5-6
An Sci Depth	3	Electives	3
Emphasis Course	3-4	Emphasis course	3-5
Emphasis course	3-4		
AN SCI 699	1-3		
<b>12-16</b>		<b>11-14</b>	

#### Total Credits 110-122

1

Choose Science or Business Emphasis; see Requirements tab for details.

2

12 credits required; see Requirements tab for options.

3

These courses are generally offered as intensive modular courses with AN SCI/DY SCI 361 being offered first half of the semester and AN SCI/DY SCI 362/AN SCI/DY SCI 363 Principles of Animal Breeding offered second half of the semester.

## ADVISING AND CAREERS

### Advising

Each student receives one-on-one guidance from their professional advisor. Academic advisors will help students build an individualized, four-year plan. Many animal sciences majors have completed double majors with Life Sciences Communication, Genetics and Genomics,

and departments outside of CALS such as Spanish, depending on the students' interests. Certificates such as CALS Business Management, Environmental Studies, Food Systems, and Global Health compliment several of our students interests and provide depth to their undergraduate program.

### Career opportunities

All students have a faculty mentor to assist with their career planning.

Students graduating with a degree in animal sciences can enter a number of career fields. These include nutrition, herd management, food testing, business, marketing, technology, meat science, healthcare, research, and teaching. Graduates have also found positions within zoos. Many students go on to pursue graduate education in veterinary medicine, animal science, or human medicine.

## PEOPLE

# ANIMAL AND DAIRY SCIENCES DEPARTMENT

### Professors

Weigel, Kent (Chair)  
 Khatib, Hasan (Associate Chair)  
 Adcock, Sarah  
 Arriola Apelo, Sebastian  
 Cabrera, Victor  
 Claus, Jim  
 Crenshaw, Thomas  
 Dorea, Joao  
 Ferraretto, Luiz  
 Fricke, Paul  
 Guo, Wei  
 Hernandez, Laura  
 Kirkpatrick, Brian  
 Laporta, Jimena  
 Leone, Vanessa  
 Mantovani, Hilario  
 Ortega, Sofia  
 Parrish, John  
 Peñagaricano, Francisco  
 Reed, Jess  
 Richards, Mark  
 Ricke, Steve  
 Rosa, Guilherme  
 Shanmuganayagam, Dhanansayan (Dhanu)  
 Sindelar, Jeffrey  
 Van Os, Jennifer  
 Wattiaux, Michel  
 White, Heather  
 Wiltbank, Milo

### Instructors/Lecturers

Halbach, Theodore  
 Kean, Ron  
 O'Rourke, Bernadette  
 Ronk, Eric

### Undergraduate Advisor

Sandberg, Liv

Link to: <https://andysci.wisc.edu/about-us/faculty-and-staff/>

## WISCONSIN EXPERIENCE

### Internships

Animal sciences majors take part in a number of internships around campus and beyond. Past students interned at veterinary clinics and hospitals, genetics companies, animal feed companies, Extension, food companies, farms, animal pharmaceutical companies, animal councils, and more.

Opportunities at Bucky's Varsity Meats, an on-campus meat-processing facility, and the Livestock Laboratory give students hands-on experience with all aspects of meat production.

### Research experience

There are numerous opportunities to conduct research with faculty and staff in the department. Around 75 percent of animal sciences majors have completed independent study projects, and research stipends are available. Some students also take part in research as part of an honors thesis.

### Student organizations

By joining a student organization, animal sciences majors connect with other students and build relationships with faculty and staff. Organizations available to animal sciences students include Pre Vet Club (<https://prevetassociation.weebly.com/>), Badger Meat Science Club (<https://win.wisc.edu/organization/badgermeatscienceclub/>), Saddle and Sirloin Club (<https://win.wisc.edu/organization/saddleandsirloin/>), and Poultry Club (<https://www.facebook.com/PoultryClubUWMadison/>).

There are additional opportunities for students to get involved in animal-related organizations on campus such as Hooper Riding Club (<https://www.hooferriding.org/>), Badger Dairy Club (<https://win.wisc.edu/organization/badgerdairyclub/>), Collegiate FFA (<http://collegiateffamadison.weebly.com/>), and Association of Women in Agriculture (<http://awamadison.org/>).

### Competitive teams

Students can join teams and compete against other universities for events such as the Animal Welfare Assessment and the Animal Science Academic Quadrathlon competition.

### Global engagement

The department encourages students to study abroad and offers globally focused courses that look at livestock production, health, animal agriculture, and sustainable development. Students can find more information on the International Academic Programs website (<https://www.studyabroad.wisc.edu/>) and the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

### Community engagement and volunteering

Animal sciences students engage in a number of volunteer opportunities including working at the Livestock Lab, the Poultry Research Lab, the Dairy Cattle Center, Bucky's Varsity Meats, and Animal Farm Units. Students also participate in Extension, 4-H and undergraduate student recruitment events.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

The animal sciences program awards \$25,000 – 35,000 in annual scholarships. Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here. (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>)

The new, state-of-the-art Meat Science & Animal Biologics Discovery Building houses a fully functional meat processing facility, a retail shop called Bucky's Varsity Meats, and an advanced laboratory that offer students highly valued hands-on opportunities.

Other specialized facilities offering students hands-on experiences include:

- The Livestock Laboratory accommodates research on multiple species and includes a surgery room.
- The Poultry Research Laboratory houses chickens and other birds.
- The Dairy Cattle Center houses more than 80 dairy cows on campus in a tie-stall barn.
- A network of off-campus Agricultural Research Stations (<https://ars.wisc.edu/>) serve as living laboratories for agricultural animal research.

## DAIRY SCIENCE, B.S.

### OVERVIEW

Studying the biology and management of dairy cows can lead to improvements in dairy production, animal welfare, human nutrition, and environmental protections. Students in the dairy science major learn all of these principles while embracing innovation and technology to meet needs in the dairy industry. The Department of Animal and Dairy Sciences, home of the undergraduate program in dairy science, produces skilled leaders who address the challenges of animal health and welfare, land and water stewardship, precision livestock farming, food safety, and biomedical advancements.

A 10:1 student-faculty ratio and small classes allow for meaningful connections. Out-of-classroom learning opportunities, such as internships on farms or with agribusiness, give students the training they need for successful 21st-century careers. Students can also gain valuable experience in research labs or in the student-operated Dairy Cattle Center.

Students majoring in dairy science are working toward a variety of careers that require a strong background in animal biology including agribusiness, dairy farm management, technical services and consulting, research, and teaching. Students also prepare for veterinary medicine or graduate school.

### Learn through hands-on, real-world experiences

UW-Madison has cows on campus. The Dairy Cattle Center is located near classrooms giving students access to cows during lab sessions. But dairy science isn't just about milking cows—it includes genetics, nutrition, lactation, and biological and digital technologies that are relevant to the dairy industry and beyond. Out-of-the-classroom experiences are the

norm for dairy science students, with 100 percent of students completing an internship or field experience.

Field courses include dairy nutrition and dairy cattle judging. Lab courses cover dairy herd management, lactation, reproduction, and dairy cattle improvement. Students solve problems through field trips to working commercial dairy operations.

### Build community and networks

Madison is an ideal location for the study of dairy science. It is a vibrant city—home to many large agribusinesses—that's also located close to dairy farms. Students volunteer in a variety of activities directed by the Badger Dairy Club (<https://win.wisc.edu/organization/badgerdairyclub/>). The largest effort is their work at the World Dairy Expo, an international dairy event held in Madison.

### Customize a path of study

Dairy science students can customize their coursework to fit their career goals with a large variety of classes in the department. The major can be combined with other majors such as agricultural business management, genetics and genomics, life science communications, or agronomy. Students can also pursue Honors in Dairy Science.

### Make a strong start

Students can take an introductory seminar course that helps them develop an individualized four-year course plan, learn about internships and job opportunities, and discuss leadership development opportunities.

### Gain global perspective

Dairy science majors are encouraged to go on study abroad programs, where they can immerse themselves in research or field experiences. In recent years, a program to central Mexico has focused on global agricultural, rural development, and the relationship between the U.S. and Mexican dairy industries, and many students have completed a semester abroad in The Netherlands. Students can explore studying abroad as a Dairy Science major by utilizing the Dairy Science Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW-Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3

CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
Select one of the following:		3
STAT 301	Introduction to Statistical Methods	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Select one of the following:		4-5
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		9-10
Option 1:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
AGRONOMY 100	Principles and Practices in Crop Production	
Option 2:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
Option 3:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Select one of the following:		3
GENETICS 466	Principles of Genetics	
CHEM 341	Elementary Organic Chemistry	
CHEM 343	Organic Chemistry I	
MICROBIO 101	General Microbiology	
MICROBIO 303	Biology of Microorganisms	
M M & I 341	Immunology	
<b>Biochemistry</b>		
Select one of the following:		3-6

BIOCHEM 301	Survey of Biochemistry	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	

**Economics**

Select one of the following:		4
A A E 215	Introduction to Agricultural and Applied Economics	

ECON 101	Principles of Microeconomics	
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**Dairy Science Core**

AN SCI/DY SCI 101	Introduction to Animal Sciences	3
AN SCI/DY SCI 102	Introduction to Animal Sciences Laboratory	1
DY SCI 233	Dairy Herd Management I	3
DY SCI 234	Dairy Herd Management II	3
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362 or AN SCI/DY SCI 363	Veterinary Genetics Principles of Animal Breeding	2
AN SCI/DY SCI 373	Animal Physiology	3
DY SCI 378	Lactation Physiology	3
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI/DY SCI 434	Reproductive Physiology	3

**Capstone**

DY SCI 399	Coordinative Internship/ Cooperative Education	1-8
DY SCI 535	Dairy Farm Management Practicum	3

**Dairy Science Electives**

Select at least 3 credits from:		3
AN SCI 135	Grand Challenges and Career Opportunities in Animal and Dairy Sciences	
DY SCI 205	Dairy Cattle Improvement Programs	
DY SCI 289	Honors Independent Study <sup>1</sup>	
DY SCI 299	Independent Study <sup>1</sup>	
DY SCI/ AN SCI 370	Livestock Production and Health in Agricultural Development	
DY SCI 375	Special Topics <sup>1</sup>	
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 473	International Field Study in Animal Agriculture and Sustainable Development	
DY SCI 534	Reproductive Management of Dairy Cattle	
DY SCI 681	Senior Honors Thesis <sup>1</sup>	
DY SCI 682	Senior Honors Thesis <sup>1</sup>	

DY SCI 699	Special Problems <sup>1</sup>	
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**Total Credits** 65-79

1

Consult with your advisor for details.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Gain knowledge of current and emerging research based information in animal biology and management sciences to support dairy production.
2. Gain intellectual, practical and attitudinal skills needed to identify and solve problems and challenges facing dairy producers and allied industries.
3. Gain in life-long learning skills to enable graduates to adapt to changing technological, economic and social circumstances throughout their professional career.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE DAIRY SCIENCE FOUR-YEAR PLAN

**Freshman**

Fall	Credits	Spring	Credits
AGRONOMY 100		4 A A E 215	4
DY SCI/AN SCI 101	3	CHEM 103	4
AN SCI/DY SCI 102	1	DY SCI 205	2
AN SCI 135	1	COMM B Course	3
MATH 112	3	Elective	3
COMM A Course	3		
	<b>15</b>		<b>16</b>

**Total Credits 31**

**Sophomore**

Fall	Credits	Spring	Credits
CHEM 104		5 DY SCI 234	3
DY SCI 233		3 DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472 <sup>1</sup>	1
STAT 371		3 BIOLOGY/ ZOOLOGY 101	3
Ethnic Studies		3 BIOLOGY/ ZOOLOGY 102	2
		BIOCHEM 301	3
		Elective	3
		<b>14</b>	<b>15</b>

**Total Credits 29****Junior**

Fall	Credits	Spring	Credits
DY SCI/AN SCI 370		3 DY SCI/AN SCI/ NUTR SCI 311	3
DY SCI 378		3 DY SCI/AN SCI 361	2
DY SCI 399		1-6 DY SCI/AN SCI 362 or 363	2
Genetics prereq core		3 DY SCI/AN SCI 373	3
Social Science (or Humanities)		3 DY SCI/ AGRONOMY 471 (or elective course)	3
		Humanities	3
		<b>13-18</b>	<b>16</b>

**Total Credits 29-34****Senior**

Fall	Credits	Spring	Credits
DY SCI/AN SCI 414		3 DY SCI 534	3
DY SCI/AN SCI 434		3 Elective Courses	9
DY SCI 535		3 Humanities (or Social Science)	3
Elective Courses		6	
		<b>15</b>	<b>15</b>

**Total Credits 30****SAMPLE DAIRY SCIENCE FOUR-YEAR PLAN-  
PRE-VETERINARY****Freshman**

Fall	Credits	Spring	Credits
CHEM 103		4 A A E 215	4
DY SCI/AN SCI 101		3 CHEM 104	5
AN SCI/DY SCI 102		1 DY SCI 205	2
AN SCI 135		1 Ethnic Studies (or Comm A)	3
MATH 221		5	
COMM A Course (or Ethnic Studies)		3	
		<b>17</b>	<b>14</b>

**Total Credits 31****Sophomore**

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151		5 DY SCI 234	3
DY SCI 233		3 DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472 <sup>1</sup>	1
STAT 371		3 BIOLOGY/BOTANY/ ZOOLOGY 152	5
DY SCI/AN SCI 370		3 Humanities	3
		Social Science	3
		<b>14</b>	<b>15</b>

**Total Credits 29****Junior**

Fall	Credits	Spring	Credits
CHEM 343		3 DY SCI/AN SCI/ NUTR SCI 311	3
DY SCI 378		3 DY SCI/AN SCI 373	3
GENETICS 466		3 BIOCHEM 501	3
DY SCI 399		1-6 DY SCI/AN SCI 361	2
Elective		3 DY SCI/AN SCI 362 or 363	2
		Elective (undergraduate research recommended)	3
		<b>13-18</b>	<b>16</b>

**Total Credits 29-34****Senior**

Fall	Credits	Spring	Credits
DY SCI/AN SCI 414		3 DY SCI 534	3
DY SCI/AN SCI 434		3 PHYSICS 104	4
DY SCI 535		3 DY SCI/AN SCI 320	3
PHYSICS 103		4 DY SCI 699 (or elective)	1-3
DY SCI 699 (or elective)		1-3 Elective	3
		<b>14-16</b>	<b>14-16</b>

**Total Credits 28-32**

1

Students are encouraged to apply for DY SCI/AN SCI/FOOD SCI/SOIL SCI 473, a summer study abroad experience associated with this course.

**ADVISING AND CAREERS****Advising**

Each dairy science student receives one-on-one guidance from their academic advisor. Academic advisors will help students build an individualized, four-year plan. Students are encouraged to take part in research experiences and internships.

**Career Opportunities**

As students find their career interests, faculty working in those fields serve as career advisors to help students make progress toward their goals.



Undergraduates in dairy science prepare for a variety of career opportunities. Science-related career opportunities include research, quality control, communications, patent law, pharmaceuticals, food testing, and human nutrition. Animal agriculture career opportunities include veterinary medicine, animal nutrition and consulting, dairy genetics, herd management, information technology, and business.

Dairy science graduates are in high demand by employers and receive job offers with competitive salaries.

## PEOPLE

# ANIMAL AND DAIRY SCIENCES DEPARTMENT

### Professors

Weigel, Kent (Chair)  
 Khatib, Hasan (Associate Chair)  
 Adcock, Sarah  
 Arriola Apelo, Sebastian  
 Cabrera, Victor  
 Claus, Jim  
 Crenshaw, Thomas  
 Dorea, Joao  
 Ferraretto, Luiz  
 Fricke, Paul  
 Guo, Wei  
 Hernandez, Laura  
 Kirkpatrick, Brian  
 Laporta, Jimena  
 Leone, Vanessa  
 Mantovani, Hilario  
 Ortega, Sofia  
 Parrish, John  
 Peñagaricano, Francisco  
 Reed, Jess  
 Richards, Mark  
 Ricke, Steve  
 Rosa, Guilherme  
 Shanmuganayagam, Dhanansayan (Dhanu)  
 Sindelar, Jeffrey  
 Van Os, Jennifer  
 Wattiaux, Michel  
 White, Heather  
 Wiltbank, Milo

### Instructors/Lecturers

Halbach, Theodore  
 Kean, Ron  
 O'Rourke, Bernadette  
 Ronk, Eric

### Undergraduate Advisor

Sandberg, Liv

Link to: <https://andysci.wisc.edu/about-us/faculty-and-staff/>

## WISCONSIN EXPERIENCE

### Internships

In the dairy science program, 100 percent of students complete an internship or field experience. The department offers an internship course under the guidance of a faculty or staff member.

UW–Madison's proximity to farms, agribusinesses, and events—such as World Dairy Expo—provide undergraduates with unique networking experiences and valuable hands-on learning.

### Research experience

More than half of the students complete a research project under mentorship from a faculty member. Dairy science researchers are internationally recognized specialists in nutrition, genetics, lactation, reproduction, animal welfare, herd management, and more. Students can take on research projects with faculty members for either course credit or pay, depending on the opportunity.

### Student organizations

The Badger Dairy Club (<https://win.wisc.edu/organization/badgerdairyclub/>) is a large, motivated student organization on campus with more than 75 members of various majors who share a passion for the dairy industry. Students are involved in dairy industry events that provide leadership and networking opportunities. Highlights of the club's activities include work at the World Dairy Expo, hosting the Badger Invitational Sale, volunteering at the Wisconsin 4-H Dairy Bowl and FFA Dairy Judging Contests, and club trips.

There are other opportunities for students to get involved in agriculture-related organizations on campus such as Collegiate FFA (<http://collegiateffamadison.weebly.com/>), Association of Women in Agriculture (<http://awamadison.org/>), Babcock House (<https://win.wisc.edu/organization/babcockhouse/>), and Alpha Gamma Rho (<https://win.wisc.edu/organization/agr/>).

### Competitive teams

Students can join competitive teams that take part in Intercollegiate Dairy Judging (<https://andysci.wisc.edu/uw-madison-dairy-judging/>), the North American Intercollegiate Dairy Challenge (<https://andysci.wisc.edu/national-north-american-intercollegiate-dairy-challenge/>), and the Animal Welfare Assessment Contest (<https://www.awjac.org/#YPcEjUxOnct>).

### Global engagement

Dairy science students are encouraged to study abroad; the department offers globally focused courses that look at livestock production, health, animal agriculture, and sustainable development, including a summer field study program focused on animal agriculture. Students can find more information on the International Academic Programs website (<https://www.studyabroad.wisc.edu/>) and the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

In addition to study abroad programs, the dairy science major offers several courses that cover animal systems and their improvement in developing countries, the world role of U.S. animal agriculture, and food production related to human and environmental health, land use, and social justice.

### Community engagement and volunteering

Students volunteer at a number of activities directed by the Badger Dairy Club. The largest effort is their work at the World Dairy Expo, an international dairy event held in Madison. There students have the unique opportunity to be directly involved in the event working behind the scenes before, during, and after the show.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

### RESOURCES AND SCHOLARSHIPS

The department offers more than 30 scholarships and awards more than \$170,000 annually.

Students across the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

UW–Madison has specialized facilities offering students hands-on dairy science experiences, including:

- The Dairy Cattle Center is home to more than 80 dairy cows on campus in a tie-stall barn.
- A network of off-campus Agricultural Research Stations (<https://ars.wisc.edu/>) serve as living laboratories for dairy research to enhance research taking place on campus.
- The Babcock Dairy Plant is a fully operational dairy plant with a retail store selling dairy products. Students can find part-time work and experience in a wide range of dairy processing jobs.

## BACTERIOLOGY

See Microbiology Major in Guide for information on exploring, declaring, advising, and careers within microbiology.

Microbiology, the study of microorganisms, helps us understand our world and solve major problems. Microorganisms, or microbes, were the first life forms on earth and influence our lives and our planet in innumerable ways. The field of microbiology is constantly expanding as we learn more about the role of microbes in infectious disease, environmental remediation, bioenergy, food safety, antibiotic resistance, biotechnology and much more. Communities of microbes (or "microbiomes") are critically important in human health, global warming, agricultural yield, criminal justice, economic development and other issues of national concern.

The **microbiology major**, offered by the Department of Bacteriology, is a rigorous path of study, providing a curriculum packed with deep knowledge on broad aspects of microbiology and emphasizing modern laboratory skills. The core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective courses provide the opportunity to study environmental microbiology, food microbiology, microbial pathogenesis, immunology, virology, microbiomes and microbial biotechnology, as well as advanced topics in microbial genetics and physiology. In the instructional laboratory courses, students learn beginning through advanced laboratory techniques—gaining the type of hands-on experiences with modern equipment that employers and graduate schools seek. Additionally, students can conduct mentored and independent research projects in faculty laboratories.

The bachelor's degree provides a strong background in the biological sciences for students planning to enter medical, dental, veterinary or other professional schools, as well as those planning graduate studies in any

branch of microbiology or other biological sciences such as biochemistry, pathology, and molecular or cell biology.

Students who end their training with a bachelor's degree are well-prepared for a variety of career opportunities, including laboratory positions in pharmaceutical and biotechnology firms, and in university and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process, as well as training in microbiology, allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

The department also serves as the administrative home for the biology major in the College of Agricultural and Life Sciences.

## DEGREES/MAJORS/CERTIFICATES

- Biology, B.S. (CAL) (p. 91)
- Microbiology, B.S. (CAL) (p. 108)

## PEOPLE

### RESEARCH FACULTY

Daniel Amador-Noguez  
 Karthik Anantharaman  
 Jean-Michel Ané  
 Briana Burton  
 Kerri Coon  
 Cameron R. Currie  
 Timothy J. Donohue  
 Katrina T. Forest (Chair)  
 David Hershey  
 Betül Kaçar  
 Charles W. Kaspar  
 Erica L-W Majumder  
 Katherine D. McMahon  
 Charlie Mo  
 Sabine Pellett  
 Federico E. Rey  
 Garret Suen  
 Michael G. Thomas  
 Jade Wang  
 Karen M. Wassarman  
 Jae-Hyuk Yu

### TEACHING FACULTY

Melissa Christopherson  
 Timothy D. Paustian  
 Jon T. Roll  
 Michelle R. Rondon  
 Betty Slinger

### ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)  
 For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## BIOLOGY, B.S. (CAL S)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain pre-professional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists, and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Agricultural and Life Sciences and the College of Letters & Science.

### HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CAL S). For information about becoming a CAL S first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

Students who intend to major in Biology in either the College of Letters and Science (L&S) or the College of Agricultural and Life Sciences (CAL S) may not combine this major ("double major") with the Molecular and Cell Biology Major or the Neurobiology Major.

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CAL S must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CAL S B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CAL S Capstone Learning Experience: included in the requirements for each CAL S major (see "Major Requirements") (p. 48)		

### REQUIREMENTS FOR THE MAJOR

A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Capstone requirements. Unless

specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

In addition to the standard Biology major, there are two Named Options: Biology with a Named Option in Evolutionary Biology and Biology with a Named Option in Plant Biology. Admissions to the Named Option in Plant Biology is suspended as of Fall 2021.

Students may complete only one Biology major/named option and must declare the option they are pursuing.

## CORE REQUIREMENTS

### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

### Chemistry

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

## Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
<b>Total Credits</b>		<b>10-13</b>

## Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3

## UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as an Upper-Level Breadth course.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from an unused category (A, B, C, D, or E).

### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3



CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
DY SCI 378	Lactation Physiology <sup>1</sup>	3	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4	AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
ENTOM 321	Physiology of Insects	3	BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
F&W ECOL 401	Physiological Animal Ecology	3	BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
GENETICS 545	Genetics Laboratory <sup>1</sup>	2	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
GENETICS/ MD GENET 565	Human Genetics	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3	ENTOM 450	Basic and Applied Insect Ecology	3
KINES 314	Physiology of Exercise <sup>1</sup>	4	ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
MICROBIO 303	Biology of Microorganisms	3	ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
MICROBIO 330	Host-Parasite Interactions	3	F&W ECOL 379	Principles of Wildlife Management	3
MICROBIO 526	Physiology of Microorganisms	3	F&W ECOL 550	Forest Ecology	3
M M & I 301	Pathogenic Bacteriology	2	F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3	F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4	GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
NTP/ZOOLOGY 620	Neuroethology Seminar	2	MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3	PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
NUTR SCI 431	Nutrition in the Life Span	3	PL PATH 315	Plant Microbiomes <sup>1</sup>	4
NUTR SCI 631	Clinical Nutrition I	3	ZOOLOGY 304	Marine Biology	2
ONCOLOGY 401	Introduction to Experimental Oncology	2	ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3
PATH 404	Pathophysiologic Principles of Human Diseases	3	ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3	ZOOLOGY 504	Modeling Animal Landscapes	3-5
PSYCH 406	Psychology of Perception	3-4	ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
PSYCH 414	Cognitive Psychology	3	ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2
PSYCH 454	Behavioral Neuroscience	3			
PSYCH 513	Hormones, Brain, and Behavior	4			
PSYCH 606	Hormones and Behavior	3			
ZOOLOGY 303	Aquatic Invertebrate Biology	3			
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5			
ZOOLOGY 603	Endocrinology	3-4			
ZOOLOGY 611	Comparative and Evolutionary Physiology	3			
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2			

### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3

ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3	AN SCI/DY SCI 363	Principles of Animal Breeding	2
ANTHRO 411	The Evolution of the Genus, Homo	3	AN SCI 503	Avian Physiology <sup>1</sup>	3
ANTHRO 458	Primate Behavioral Ecology	3	AN SCI 512	Management for Avian Health <sup>1</sup>	3
ANTHRO 603	Seminar in Evolutionary Theory	3	BIOCORE 587	Biological Interactions	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3	BOTANY 403	Field Collections and Identification	1-4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4	DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
BOTANY 400	Plant Systematics <sup>1</sup>	4	ENTOM 351	Principles of Economic Entomology	3
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4	ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
BOTANY 422	Plant Geography	3	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3	F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3	F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
GENETICS 468	General Genetics 2	3	F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3	F&W ECOL 410	Principles of Silviculture	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3	F&W ECOL 415	Tree Physiology	3
PSYCH 449	Animal Behavior	3	F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3	F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3	FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2	FOOD SCI/ MICROBIO 325	Food Microbiology	3
ZOOLOGY 415	Genetics of Human History	3	FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
ZOOLOGY 425	Behavioral Ecology	3	GENETICS 548	The Genomic Revolution	3

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits			
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3	HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
AGRONOMY 300	Cropping Systems	3	HORT 370	World Vegetable Crops	3
AGRONOMY 302	Forage Management and Utilization	3	HORT 372	Seminar in Organic Agriculture	1
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2	HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
AGRONOMY 377	Global Food Production and Health	3	HORT 378	Tropical Horticultural Systems International Field Study	2
AGRONOMY/ HORT 501	Principles of Plant Breeding	3	M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3	MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
AN SCI/DY SCI 320	Animal Health and Disease	3	NTP/MED PHYS 651	Methods for Neuroimaging Research	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2			

NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

## CAPSTONE REQUIREMENT

Code	Title	Credits
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Two credits minimum required. With advisor approval, directed study or research-based senior thesis in a biological science discipline can also count. The experience must be completed after the first year of an introductory biology sequence above. The capstone experience will normally be completed during the student's final two or three semesters. Also, a subset of laboratory courses has been approved for capstone. The following courses, along with 682s and 692s in biological science departments (taken senior year), can be accepted as fulfilling the capstone experience.

ANAT&PHY 435	Fundamentals of Human Physiology	5
BIOCORE 486	Principles of Physiology Laboratory	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL 599	Wildlife Research Capstone (limited access)	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
PL PATH 315	Plant Microbiomes	4
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2

## BIOLOGY NAMED OPTIONS

Instead of completing the requirements above, students may choose to select one of the options below.

View as listView as grid

- **BIOLOGY: EVOLUTIONARY BIOLOGY (P. 99)**
- **BIOLOGY: PLANT BIOLOGY (P. 105)**

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

### HONORS IN THE MAJOR IN BIOLOGY: REQUIREMENTS

To earn Honors in the Major in Biology, students must satisfy the requirements for the major (above) as well as the following requirements:

- Earn a 3.300 overall university GPA
- Complete a two-semester Senior Honors Thesis for 6 credits total and present research in a public forum
- Complete at least 20 credits of Honors coursework from the following sections of the Biology curriculum:
  - Introductory Biology
  - Foundation Courses
  - Upper-Level Breadth in the Major
- At least 6 of the 20 credits of Honors coursework must be from the Upper-Level Breadth in the Major requirement

## FOOTNOTES

1

Course also approved for lab credit

2

To count BIOCORE 486 Principles of Physiology Laboratory for capstone, students must also complete BIOCORE 382 Evolution, Ecology, and Genetics Laboratory and BIOCORE 384 Cellular Biology Laboratory.



# UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Know and understand core concepts that unify the breadth of biological sciences including: evolution; structure and function; information flow, exchange, and storage; pathways for transformations of energy and matter; and systems.
2. Demonstrate practical skills of a professional biologist including: problem-solving by engaging the process of science; written and verbal proficiency; laboratory skills; quantitative analysis skills; and teamwork skills.
3. Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## FOUR-YEAR PLAN

Four-year plans for the biology major are designed to support biological science major exploration. The four-year plan is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and Course Search & Enroll. Your specific program of study could, and probably will, look different. You should customize your own four-year plan to fit your unique path at UW–Madison. Consult with your advisor about the best path for you.

## FOUR-YEAR PLAN

### SAMPLE BIOLOGY MAJOR—NO OPTION FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
Math Course <sup>1</sup>	3-5	Math or Statistics	3-4
Communication A or Breadth Courses	6	Communication A or Breadth Courses	5-7

First Year Seminar <sup>2</sup>	1	
	<b>14-17</b>	<b>13-16</b>

#### Total Credits 27-33

#### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 344	2
Math or Statistics (if needed)	3-4	CHEM 345	3
Intro Biology Courses <sup>3</sup>	3-5	Intro Biology Courses <sup>3</sup>	3-5
Breadth Course	3	Breadth Courses	4-6
	<b>12-15</b>		<b>12-16</b>

#### Total Credits 24-31

#### Junior

Fall	Credits	Spring	Credits
PHYSICS 103 or 207	4-5	PHYSICS 104 or 208	4-5
Foundational or Biocore	3	Biocore or Upper-Level Breadth in the Major <sup>4</sup>	3-5
Elective Courses	5-8	Elective Courses	5-8
	<b>12-16</b>		<b>12-18</b>

#### Total Credits 24-34

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major <sup>4</sup>	3-5	Upper-Level Breadth in the Major <sup>4</sup>	3-5
Capstone or Research Course	2-3	Capstone or Research Course	2-3
Elective Courses	7-10	Elective Courses	7-10
	<b>12-18</b>		<b>12-18</b>

#### Total Credits 24-36

1

Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

2

See CALS requirements (p. 45) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

### SAMPLE BIOLOGY FOUR-YEAR PLAN— EVOLUTIONARY BIOLOGY OPTION

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
Math Course <sup>1</sup>	3-5	Math or Statistics	3-4
Communication A or Breadth Courses	6	Communication A or Breadth Courses	6

First Year Seminar <sup>2</sup>	1
<b>14-17</b>	<b>14-15</b>

**Total Credits 28-32****Sophomore**

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 345	3
Math or Statistics (if needed)		3-5 CHEM 344	2
Intro Biology Course <sup>3</sup>		5 Intro Biology Course <sup>3</sup>	5
Breadth Course		3 Breadth Courses	4-6
<b>14-16</b>			<b>14-16</b>

**Total Credits 28-32****Junior**

Fall	Credits	Spring	Credits
PHYSICS 103 or 207		4-5 PHYSICS 104 or 208	4-5
Foundation Course or Biocore		3-5 ANTHRO/BOTANY/ZOOLOGY 410	3
Electives		5 BIOLOGY/GENETICS 522	2-3
		Electives	5
<b>12-15</b>			<b>14-16</b>

**Total Credits 26-31****Senior**

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major <sup>4</sup>		5 Upper-Level Breadth in the Major <sup>4</sup>	5
Capstone or Research Course		2-3 Capstone or Research	2-3
Elective Courses		5-8 Elective Courses	5-8
<b>12-16</b>			<b>12-16</b>

**Total Credits 24-32**

1

Math determined by placement scores. Students in the Evolutionary Biology Named Option must complete MATH 171/MATH 217 or MATH 221 plus STAT 301 or STAT 371.

2

See CALS requirements (p. 45) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

**SAMPLE BIOLOGY FOUR-YEAR PLAN—PLANT BIOLOGY OPTION****Freshman**

Fall	Credits	Spring	Credits
CHEM 103 or 109		4-5 CHEM 104	5
Math <sup>1</sup>		3-5 Math or Statistics	3-5
Communication A or Breadth		6 Communication A or Breadth	5-6
First Year Seminar <sup>2</sup>		1	
<b>14-17</b>			<b>13-16</b>

**Total Credits 27-33****Sophomore**

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 345	3
Math or Statistics (if needed)		3-5 CHEM 344	2
Intro Biology Course <sup>3</sup>		3-5 Intro Biology Course <sup>3</sup>	3-5
Breadth Course		3 Breadth Course	4-6
<b>12-16</b>			<b>12-16</b>

**Total Credits 24-32****Junior**

Fall	Credits	Spring	Credits
PHYSICS 103 or 207		4-5 PHYSICS 104 or 208	4-5
Foundation Course or Biocore		3-5 Biocore or Upper-Level Breadth in the Major <sup>4</sup>	3-5
Electives		5-6 Plant Science Seminar	1
		Electives	5
<b>12-16</b>			<b>13-16</b>

**Total Credits 25-32****Senior**

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major <sup>4</sup>		5 Upper-Level Breadth in the Major <sup>4</sup>	5
Capstone or Research		2-3 Capstone or Research	2-3
Plant Science Seminar (if needed)		1 Plant Science Seminar (if needed)	1
Electives		5-8 Electives	5-8
<b>13-17</b>			<b>13-17</b>

**Total Credits 26-34**

1

Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

**Stats recommended.**

2

See CALS requirements (p. 45) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or (**recommended**) BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<https://advising.wisc.edu/soar/advising-101/>).

In the biology major, students are assigned to an advisor according to last name. Please schedule an advising appointment here (<http://biologymajor.wisc.edu/advising/>).

### CAREERS

The biology major encourages students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the CALS Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

College of Agricultural and Life Sciences graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Career Resources:

- Schedule a Career Advising appointment (<https://cals.wisc.edu/academics/undergraduate-students/career-services/students/>)
- Explore CALS Career Services for Students (<https://cals.wisc.edu/academics/undergraduate-students/career-services/resources/>)

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Brian Asen  
Carley Garvens  
Sarah Kuba, Program Director  
Brittany Magrady  
Damien Parks

## BIOLOGY MAJOR PROGRAM COMMITTEE

(voting members)

Joseph Dillard  
Stephen Gammie, L&S Co-Chair  
Irwin Goldman, Plant Biology Named Option Representative  
Anna Kowalkowski  
Sarah Kuba, ex officio  
Kate McCulloh  
Timothy Paustian, ex officio  
Federico Rey  
Nathaniel Sharp, Evolutionary Biology Named Option Representative  
Sharon Thoma, ex officio  
Jon Woods  
Jae-Hyuk Yu, CALS Co-Chair

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biology, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- Many study abroad programs offer a plethora of excellent upper-level biological science courses. Students often complete courses abroad that meet major requirements while others use this opportunity to focus on non-science coursework and explore other topics that interest them. Students can explore studying abroad as a Biology major utilizing the Biology Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biology/>). Students work with their advisor and the CALS study abroad office (<https://cals.wisc.edu/academics/undergraduate-students/studyabroad/>) to identify appropriate programs.
- Students are encouraged to get involved in research in any life science department. Research can be performed for either course credit or pay, depending on the opportunity. Research opportunities can be identified by inquiring directly (<https://biology.wisc.edu/finding-mentor/>) with faculty members, reading the Biology Major Newsletter (<https://biologymajor.wisc.edu/newsletters/>), or announcement on the Student Job Center (<https://jobcenter.wisc.edu/>).

## BIOLOGY: EVOLUTIONARY BIOLOGY

The **Evolutionary Biology Named Option** allows biology majors to concentrate their studies in evolution and to have this reflected on their transcript. Since there is no evolutionary biology major available at UW-Madison, this is the only mechanism to indicate specialization in this rapidly growing and popular field. In taking this named option, students will be able to fulfill their intermediate/advanced biology requirement with courses that emphasize evolutionary biology, ranging from required courses in fundamental evolutionary biology to more advanced optional courses that cover a wide range of evolutionary biology topics. They will also take a seminar course in evolutionary biology.

Who should enroll in this option? Students with broad interest in the biological sciences who want to:

- Prepare for graduate study in evolutionary biology or related fields
- Prepare for professional studies (e.g. medical school, veterinary school, dentistry)
- Concentrate their biological studies in evolutionary biology

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, Capstone, and Evolutionary Biology Seminar requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

### CORE REQUIREMENTS

#### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
Complete one of the following:		3-4
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

#### Chemistry

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

#### Physics

Code	Title	Credits
First Semester Physics (Complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	

PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

#### Introductory Biology

Code	Title	Credits
Complete one of the following options:		10-13
Option A:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		13
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		10
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

#### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

### UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required as follows and must include **one approved lab course**. (Approved lab courses are indicated by footnote.) A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete the Evolutionary Biology course listed below.
- Complete at least two credits from either category A or B.
- Complete at least two credits from category C.
- Complete at least two credits from category D.
- Additional courses needed to reach 13 credits of Upper-Level Breadth in the Major may be taken from any category (A, B, C, D, E).

**Required Evolutionary Biology course**

Code	Title	Credits
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	3

**A. Cellular and Subcellular Biology**

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3
CRB 650	Molecular and Cellular Organogenesis	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3
DERM 601	Skin Biology and Skin Diseases	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3
GENETICS 520	Neurogenetics	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3

GENETICS 588	Immunogenetics	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO 607	Advanced Microbial Genetics	3
M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
NEURODPT/NTP/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY 655	Modeling Neurodevelopmental Disease	3

**B. Organismal Biology**

Code	Title	Credits
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
ANAT&PHY 335	Physiology <sup>1</sup>	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory	2
ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	5
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4

BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
DY SCI 378	Lactation Physiology <sup>1</sup>	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
ENTOM 321	Physiology of Insects	3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
F&W ECOL 401	Physiological Animal Ecology	3
GENETICS 545	Genetics Laboratory <sup>1</sup>	2
GENETICS/ MD GENET 565	Human Genetics	3
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
KINES 314	Physiology of Exercise <sup>1</sup>	4
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO 526	Physiology of Microorganisms	3
M M & I 301	Pathogenic Bacteriology	2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
NTP/ZOOLOGY 620	Neuroethology Seminar	2
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NUTR SCI 431	Nutrition in the Life Span	3
NUTR SCI 631	Clinical Nutrition I	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 606	Hormones and Behavior	3
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3

ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2
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### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3

ZOOLOGY/  
ENVIR ST 511 Ecology of Fishes Lab<sup>1</sup> 2

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
PSYCH 449	Animal Behavior	3-4
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4

AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3

NTP/MED PHYS 651	Methods for Neuroimaging Research <sup>1</sup>	3
NUTR SCI 332	Human Nutritional Needs	3
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHM COL-M/ POP HLTH 625	Toxicology I	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

## EVOLUTIONARY BIOLOGY SEMINAR

Code	Title	Credits
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3

## CAPSTONE REQUIREMENT

Code	Title	Credits
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Two credits minimum required. With advisor approval, directed study or research-based senior thesis in a biological science discipline can also count. The experience must be completed after the first year of an introductory biology sequence above. The capstone experience will normally be completed during the student's final two or three semesters. Also, a subset of laboratory courses has been approved for capstone. The following courses, along with 682s and 692s in biological science departments (taken senior year), can be accepted as fulfilling the capstone experience.

ANAT&PHY 435	Fundamentals of Human Physiology	5
BIOCORE 486	Principles of Physiology Laboratory <sup>2</sup>	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL 599	Wildlife Research Capstone (limited access)	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
PL PATH 315	Plant Microbiomes	4
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2

## FOOTNOTES

1

Course also approved for lab credit

2

To count BIOCORE 486 Principles of Physiology Laboratory for capstone, students must also complete BIOCORE 382 Evolution, Ecology, and Genetics Laboratory and BIOCORE 384 Cellular Biology Laboratory.

## FOUR-YEAR PLAN

### SAMPLE BIOLOGY FOUR-YEAR PLAN—EVOLUTIONARY BIOLOGY OPTION

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
Math Course <sup>1</sup>	3-5	Math or Statistics	3-4
Communication A or Breadth Courses	6	Communication A or Breadth Courses	6
First Year Seminar <sup>2</sup>	1		
<b>14-17</b>		<b>14-15</b>	

#### Total Credits 28-32

#### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 345	3
Math or Statistics (if needed)	3-5	CHEM 344	2
Intro Biology Course <sup>3</sup>	5	Intro Biology Course <sup>3</sup>	5
Breadth Course	3	Breadth Courses	4-6
<b>14-16</b>		<b>14-16</b>	

#### Total Credits 28-32

#### Junior

Fall	Credits	Spring	Credits
Physics Course	4-5	Physics Course	4-5
Foundational or Biocore	3-5	ANTHRO/BOTANY/ ZOOLOGY 410	3
Electives	5	BIOLOGY/ GENETICS 522	2-3
		Electives	5
<b>12-15</b>		<b>14-16</b>	

#### Total Credits 26-31

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major <sup>4</sup>	5	Upper-Level Breadth in the Major <sup>4</sup>	5
Capstone or Research Course	2-3	Capstone or Research	2-3
Elective Courses	5-8	Elective Courses	5-8
<b>12-16</b>		<b>12-16</b>	

#### Total Credits 24-32

1

Math determined by placement scores. Students in the Evolutionary Biology Named Option must complete MATH 171/MATH 217 or MATH 221 plus STAT 301 or STAT 371.



2

See CALS requirements (p. 45) for a list of approved CALS First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

## BIOLOGY: PLANT BIOLOGY

**Admissions to the Biology: Plant Biology, B.S. named option have been suspended as of fall 2021 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

The **Plant Biology Named Option** allows biology majors to focus their studies on plant science and to have this reflected on their transcript. There are a number of departments at UW–Madison who host plant science–based majors, including agronomy, botany, horticulture, plant pathology, and forest and wildlife ecology. While those specialized majors offer in-depth programs in their disciplines, the Plant Biology Named Option allows students to pursue a course of study within the biology major and explore plant biology at the same time. Students in this option can fulfill their requirements with courses that emphasize various aspects of plant science, including anatomy, physiology, genetics, crop production, disease resistance, and molecular techniques in plant improvement. Students also participate in a one-credit seminar focusing on plant biology.

Who should enroll in this option? Students with broad interest in biological sciences who also want to:

- Prepare for graduate work in a plant science field
- Prepare for advanced study or graduate work in a natural or environmental science field
- Concentrate their studies on the biology of plants

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

A minimum of 15 credits must be completed in the major that are not used elsewhere. Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Capstone requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

## CORE REQUIREMENTS

### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	5-10
MATH 221	Calculus and Analytic Geometry 1	
Complete one of the following:		
MATH 222	Calculus and Analytic Geometry 2	3-4
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

### Chemistry

Code	Title	Credits
General Chemistry (Complete one of the following):		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	5-10
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		
PHYSICS 103	General Physics	4-5
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		
PHYSICS 104	General Physics	4-5
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

### Introductory Biology

Code	Title	Credits
Select one of the following options:		
Option A:		
BIOLOGY/BOTANY/ZOOLOGY 151	Introductory Biology	10-13
BIOLOGY/BOTANY/ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 383	Cellular Biology
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 485	Principles of Physiology
Option C:	
ZOOLOGY/ BIOLOGY 101	Animal Biology
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory
BOTANY/ BIOLOGY 130	General Botany

### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

### UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as an Upper-Level Breadth in the Major course.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from category E.

#### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics 1	3

#### B. Organismal Biology

Code	Title	Credits
BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

#### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3

#### D. Evolution and Systematics

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4

BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
GENETICS 468	General Genetics 2	3

BIOCHEM 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar )	1-4
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

## PLANT SCIENCE SEMINAR

Code	Title	Credits
Complete one of the following:		
AGRONOMY 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar )	1-4

## CAPSTONE REQUIREMENT

Code	Title	Credits
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Two credits minimum required. With advisor approval, directed study or research-based senior thesis in a biological science discipline can also count. The experience must be completed after the first year of an introductory biology sequence above. The capstone experience will normally be completed during the student's final two or three semesters. Also, a subset of laboratory courses has been approved for capstone. The following courses, along with 682s and 692s in biological science departments (taken senior year), can be accepted as fulfilling the capstone experience.

ANAT&PHY 435	Fundamentals of Human Physiology	5
BIOCORE 486	Principles of Physiology Laboratory 2	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL 599	Wildlife Research Capstone (limited access)	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
PL PATH 315	Plant Microbiomes	4
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2

## FOOTNOTES

1

Course also approved for lab credit

2

To count BIOCORE 486 Principles of Physiology Laboratory for capstone, students must also complete BIOCORE 382 Evolution, Ecology, and Genetics Laboratory and BIOCORE 384 Cellular Biology Laboratory.

## FOUR-YEAR PLAN

### SAMPLE BIOLOGY FOUR-YEAR PLAN— PLANT BIOLOGY OPTION

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
Math <sup>1</sup>	3-5	Math or Statistics	3-5
Communication A or Breadth	6	Communication A or Breadth	5-6
First Year Seminar <sup>2</sup>	1		
	<b>14-17</b>		<b>13-16</b>

#### Total Credits 27-33

#### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 345	3
Math or Statistics (if needed)	3-5	CHEM 344	2
Intro Biology Course <sup>3</sup>	3-5	Intro Biology Course <sup>3</sup>	3-5
Breadth Course	3	Breadth Course	4-6
	<b>12-16</b>		<b>12-16</b>

#### Total Credits 24-32

#### Junior

Fall	Credits	Spring	Credits
Physics	4-5	Physics	4-5
Foundation or Biocore	3-5	Biocore or Upper-Level Breadth in the Major <sup>4</sup>	3-5
Electives	5-6	Plant Science Seminar	1
		Electives	5
	<b>12-16</b>		<b>13-16</b>

#### Total Credits 25-32

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major <sup>4</sup>	5	Upper-Level Breadth in the Major <sup>4</sup>	5
Capstone or Research	2-3	Capstone or Research	2-3
Plant Science Seminar (if needed)	1	Plant Science Seminar (if needed)	1
Electives	5-8	Electives	5-8
	<b>13-17</b>		<b>13-17</b>

#### Total Credits 26-34

1

Math determined by placement scores. Biology majors must complete MATH 171/MATH 217 or MATH 221 plus one additional math/stats course.

**Stats recommended.**

2

See CALS requirements (p. 45) for a list of approved First-Year Seminar courses.

3

Students may complete BIOLOGY/BOTANY/ZOOLOGY 151-BIOLOGY/BOTANY/ZOOLOGY 152 & a foundational course or **(recommended)** BIOLOGY/ZOOLOGY 101-BIOLOGY/ZOOLOGY 102, BIOLOGY/BOTANY 130 & a foundational course or BIOCORE (three lectures and two labs required).

4

See Requirements tab for Upper-Level Breadth in the Major course lists.

## MICROBIOLOGY, B.S. (CAL5)

The smallest living things – including bacteria, viruses, and yeast—may not be visible to the human eye, but they have big effects on health, food, medicine, energy, and the environment. These tiny organisms, called microbes, were the first life forms on Earth and continue to influence the planet in significant ways. Microbiomes—communities of microbes—are increasingly studied by researchers focusing on human health, global warming, infectious disease, environmental remediation, bioenergy, and much more.

The microbiology major prepares students for modern research in microbiology, with a heavy emphasis on practical laboratory experiences. Students learn the cellular biology, genetics, ecology, evolution, and physiology of microbes. Through courses, students learn laboratory techniques—gaining the type of hands-on experiences with modern equipment that employers and graduate and professional schools seek. Additionally, students can conduct mentored and independent research projects in faculty laboratories where they will learn to critically evaluate scientific data, carry out laboratory experiments, and communicate scientific information.

Microbiology majors graduate prepared for careers in biotechnology, education, healthcare, information technology, and food safety. Many students pursue graduate and professional studies, including medical school, dental school and biological sciences PhD programs.

### Learn through hands-on, real world experiences

With so many microbiologists on the faculty, students have numerous opportunities to conduct research in faculty labs. As one of the largest research buildings on campus, students have access to state-of-the-art facilities and are able to conduct cutting edge experiments using novel techniques that few other undergraduate programs allow. Through a senior-year capstone course, students conduct research under the direction of a professor or as part of class projects that have included culturing microbes from the gut of hibernating ground squirrels, comparing bacteria from the mouths of athletes and non-athletes, and culturing microbes found in deep sea vents. This kind of hands-on experience distinguishes microbiology majors from other graduates and enhances the real-world skills that are valued by post-secondary schools and employers.

### Build community and networks

Through the Microbiology Club, students establish study groups, explore careers, and teach others on campus and in the community about microbiology. Through events like cheese, yogurt, and kombucha making, the club offers opportunities for community-building both within the program and with the broader university community. This student organization is the official American Society of Microbiology

undergraduate chapter for the UW–Madison and provides annual travel and research awards to outstanding students.

### Customize a path of study

Core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective courses provide the opportunity to study environmental microbiology, food microbiology, microbial pathogenesis, immunology, virology, microbiomes, microbial biotechnology, and public health, as well as advanced topics in microbial genetics and physiology. Students may also pursue Honors in Microbiology.

### Make a strong start

All courses in the program, including entry level courses, are taught by faculty who specialize in teaching microbiology.

### Gain global perspective

Majors can also choose from a variety of study abroad programs including short-term field experiences, summer research opportunities and semester-long exchange programs at top universities around the world. A study abroad program in Thailand specifically tailored for microbiology majors is frequently offered and led by microbiology faculty from UW–Madison. Students can explore studying abroad as a Microbiology major by utilizing the Microbiology Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

Incoming or current students in good academic standing may declare the microbiology major at any time.

Schedule an appointment with a microbiology major advisor to discuss how to declare the major, appropriate coursework to take, and much more. Please see the Advising and Careers tab for information on how to schedule an appointment with a microbiology major advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Mathematics</b>		
	Complete one of the following:	5-10

MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	

**Statistics**

Complete one of the following: 3

STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**General Chemistry**

Complete one of the following: 5-10

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	

**Organic Chemistry**

Complete ALL of the following:

CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

**Biology Foundation**

Complete one of the following: 10-13

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Principles of Physiology <sup>1</sup>	
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	

**Physics**

Select one of the following: 8-10

PHYSICS 103 & PHYSICS 104	General Physics and General Physics <sup>2</sup>	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics <sup>2</sup>	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	

**Biochemistry**

Complete one of the following: 3-6

BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	

**Microbiology Courses***Microbiology Core (all required):*

Except where noted, all Microbiology Core courses are offered every fall and spring semester.

MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology (FALL ONLY)	2

*Microbiology Capstone (required):*

MICROBIO 551	Capstone Research Project in Microbiology (SPRING ONLY)	2
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*Microbiology Electives*

Complete at least 6 credits; at least 3 credits must come from Set A. Note that not all elective courses are offered every semester.

Set A: 3-6

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	
MICROBIO/ FOOD SCI 325	Food Microbiology	
MICROBIO 330	Host-Parasite Interactions	
MICROBIO/ AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	
MICROBIO 345	Introduction to Disease Biology	
MICROBIO/SOIL SCI 425	Environmental Microbiology	
MICROBIO 520	Planetary Microbiology: What Life Here Tells Us About Life Out There	
MICROBIO/SOIL SCI 523	Soil Microbiology and Biochemistry	
MICROBIO 525	Field Studies of Planetary Microbiology and Life in the Universe	
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)	
MICROBIO 607	Advanced Microbial Genetics	
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	
MICROBIO 626	Microbial and Cellular Metabolomics	
MICROBIO 657	Bioinformatics for Microbiologists	
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	

Set B: 0-3

BIOCHEM 570	Computational Modeling of Biological Systems	
BIOCHEM/M M & I 575	Biology of Viruses	

BIOCHEM 601	Protein and Enzyme Structure and Function
BOTANY 330	Algae
BOTANY/PL PATH 332	Fungi
BOTANY/ENTOM/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
CHEM 565	Biophysical Chemistry
COMP SCI/ B M I 576	Introduction to Bioinformatics
F&W ECOL/SURG SCI 548	Diseases of Wildlife
FOOD SCI 550	Fermented Foods and Beverages
M M & I 301	Pathogenic Bacteriology
M M & I 341	Immunology
M M & I/ENTOM/PATH-BIO/ZOOLOGY 350	Parasitology
M M & I 554	Emerging Infectious Diseases and Bioterrorism
M M & I/POP HLTH 603	Clinical and Public Health Microbiology
ONCOLOGY/PL PATH 640	General Virology-Multiplication of Viruses
PATH-BIO/ M M & I 528	Immunology
PL PATH 622	Plant-Bacterial Interactions
PL PATH/BOTANY/GENETICS/ M M & I 655	Biology and Genetics of Fungi

**Total Credits****64-88**

1

(BIOLOGY/BOTANY/ZOOLOGY 151 and BIOLOGY/BOTANY/ZOOLOGY 152) or (BIOCORE 381 / BIOCORE 382 / BIOCORE 383 / BIOCORE 384 / BIOCORE 485) are recommended.

2

(PHYSICS 103 / PHYSICS 104) or (PHYSICS 207 / PHYSICS 208) are recommended.

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

**Admission Criteria for New First-Year Students:**

- Complete program application including essay questions

**Admission Criteria for Transfer and Continuing UW-Madison Students:**

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## HONORS IN THE MAJOR IN MICROBIOLOGY: REQUIREMENTS

To earn Honors in the Major in Microbiology, students must satisfy the Requirements for the Major (above) as well as the following requirements. All courses used for Honors in the Major requirements must receive "B" or better grades to fulfill requirements.

- Earn a 3.300 overall university GPA.
- Earn a 3.300 GPA for all MICROBIO courses, and all courses accepted in the major.
- Complete a two-semester Senior Honors Thesis (MICROBIO 681 and MICROBIO 682) for 6 credits total and present research in a public forum. Students completing their senior honors theses in laboratories or departments outside of Microbiology may be able to count that thesis toward Honors in the Major.
- Complete at least 20 credits of any combination of the following coursework:
  - Honors courses that fulfill Requirements for the Major (see above); independent study and thesis credits do not count here.
  - Non-honors coursework credits from this list: CHEM 115, CHEM 311, CHEM 327, GENETICS 466, MATH 222, MATH 234. These courses do not need to be taken for honors to count.
- At least 10 of the 20 credits of coursework above must come from courses taken for honors from this Microbiology course list: MICROBIO 303, MICROBIO 304, MICROBIO/FOOD SCI 325, MICROBIO 330, MICROBIO/AN SCI/BOTANY 335, MICROBIO 345, MICROBIO/SOIL SCI 425, MICROBIO 450, MICROBIO 470, MICROBIO 526, MICROBIO 607, MICROBIO/BIOCHEM/GENETICS 612, MICROBIO 657, MICROBIO/BMOLCHEM 668.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology
2. Apply the scientific method to questions. Formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
3. Demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving
4. Access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
5. Learn about and demonstrate personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE MICROBIOLOGY FOUR-YEAR PLAN

##### Freshman

Fall	Credits	Spring	Credits
General Chemistry <sup>1</sup>	4-5	Gen Chem or Electives <sup>1</sup>	5
Math <sup>2</sup>	3	Math <sup>2</sup>	3-5
COMM-A	3	Electives <sup>3</sup>	6
First-Year Seminar	1		
Elective <sup>3</sup>	3		
<b>14-15</b>		<b>14-16</b>	

##### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 344	2
Math <sup>2</sup>	3-5	CHEM 345	3
Intro Biology, Semester 1 <sup>4</sup>	5	Intro Biology, Semester 2 <sup>4</sup>	5
Elective <sup>3</sup>	3	Electives <sup>3</sup>	6
<b>14-16</b>		<b>16</b>	

##### Junior

Fall	Credits	Spring	Credits
General Physics, Semester 1 <sup>5</sup>	4-5	General Physics, Semester 2 <sup>5</sup>	4-5
MICROBIO 303	3	MICROBIO 470	3

MICROBIO 304	2	BIOCHEM 501 <sup>7</sup>	3
MICROBIO 305	1	Research <sup>6</sup>	1-4
Research <sup>6</sup>	1-4	Electives (for major or other) <sup>3</sup>	0-4
Electives (to reach 15 crs) <sup>3</sup>	0-4		
<b>11-19</b>		<b>11-19</b>	

##### Senior

Fall	Credits	Spring	Credits
MICROBIO 526	3	MICROBIO 450	3
MICROBIO 527	2	MICROBIO 551	2
Research <sup>6</sup>	1-4	Research <sup>6</sup>	1-4
Electives (for major or other) <sup>3</sup>	6-9	Electives (for major or other) <sup>3</sup>	7-10
<b>12-18</b>		<b>13-19</b>	

##### Total Credits 105-138

##### \*

Students planning to pursue graduate studies in a biological science are encouraged to take MATH 222, PHYSICS 201/ PHYSICS 202 or PHYSICS 207/PHYSICS 208, and BIOCHEM 507/BIOCHEM 508 (see Note 7). Also recommended: CHEM 565 Biophysical Chemistry and MICROBIO/BIOCHEM/GENETICS 612 Prokaryotic Molecular Biology.

##### 1

Choose 1 of 3 sequences: (CHEM 103/CHEM 104) or CHEM 109 or (CHEM 115/CHEM 116). Students who take CHEM 109 and plan to attend medical or other professional schools are advised to take one additional inorganic course (CHEM 311 or CHEM 327).

##### 2

Math course determined by placement scores. Microbiology majors must complete math through calculus (choose from MATH 171/MATH 217 or MATH 221), and statistics (choose from STAT 301 or STAT 371).

##### 3

Electives can be scheduled according to the student's preference. Consult your advisor and the Requirements tab.

##### 4

The three choices are 1) ZOOLOGY/BIOLOGY/BOTANY 151 and ZOOLOGY/BIOLOGY/BOTANY 152; 2) ZOOLOGY/BIOLOGY 101, ZOOLOGY/BIOLOGY 102 and BOTANY/BIOLOGY 130; or 3) Biocore. Biocore is a 3 to 4 semester sequence. Students must complete the first three lectures and the first two labs. The Biocore courses are BIOCORE 381, BIOCORE 382, BIOCORE 383, BIOCORE 384, BIOCORE 485, BIOCORE 486, BIOCORE 587.

##### 5

Physics may be taken in year 1, 2, 3, or 4 depending on the student's schedule.

##### 6

Undergraduate research courses include 299, 699, 681#682 (Honors Thesis), 691#692 (Thesis). Both semesters are required for thesis credit. Students are encouraged to take several semesters of research (internship opportunities, 399, are also encouraged).



7

If BIOCHEM 507 General Biochemistry I and BIOCHEM 508 General Biochemistry II are taken, both semesters must be completed (with the recommendation of BIOCHEM 507 in fall semester of year 3 and BIOCHEM 508 in spring semester of year 3).

## THREE-YEAR PLAN

This sample three-year plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an academic advisor early and often to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and considerations they might make in pursuit of a three-year graduation plan.

While there are many advantages to attending four years of college, including making the most of research and study abroad opportunities, exploring alternative majors, completing additional majors and certificates, developing skills and interests through student groups, and personal growth, students may have reasons for wishing to graduate in fewer than four years.

The example plan assumes that students will:

- enter their freshman year with 20 advanced standing credits, including equivalency credit for MATH 221
- declare their major freshman year
- take two summer terms
- enroll in at least 15-16 credits in the fall/spring semesters

Code	Title	Credits			
<b>Courses taken the summer before arriving on campus</b>					
INTER-AG 140	CALS QuickStart: Foundations	1			
INTER-AG 141	QuickStart: Connect2Campus	1			
<i>Total Credits:</i>		2			
<b>First Year</b>					
Fall	Credits	Spring	Credits	Summer	Credits
CHEM 103	4	CHEM 104	5	MICROBIO 303	3
Comm A Requirement	3	BIOLOGY/ BOTANY/ ZOOLOGY 151	5	MICROBIO 304	2
STAT 371 or 301	3	Elective	3		
Humanities breadth	3	Humanities breadth	3		
Social Science breadth	3				
		<b>16</b>	<b>16</b>	<b>5</b>	
<b>Second Year</b>					
Fall	Credits	Spring	Credits		
CHEM 343	3	CHEM 345	3		

BIOLOGY/ BOTANY/ ZOOLOGY 152	5	CHEM 344	2	
MICROBIO 470	3	BIOCHEM 501	3	
International Studies CALS requirement	3	MICROBIO 305	1	
Elective	2	Elective <sup>2</sup>	3	
		Ethnic Studies	3	
		<b>16</b>	<b>15</b>	

### Third Year

Fall	Credits	Spring	Credits
MICROBIO 527	2	MICROBIO 551	2
MICROBIO 450	3	MICROBIO 526	3
PHYSICS 103 or 207	4-5	PHYSICS 104 or 208	4-5
Major Elective	3	Major Elective	3
Elective <sup>2</sup>	3	Elective <sup>2</sup>	3
		<b>15-16</b>	<b>15-16</b>

### Total Credits 98-100

Students must earn **120 total credits** to graduate, including accepted advanced standing or transfer credits. The above charts reflect 100-102 total credits from six fall/spring semesters and two summer terms, including courses taken in the summer before the first year.

1

The Microbiology major recommends QuickStart (INTER-AG 140 and INTER-AG 141) for the First-Year Seminar requirement. However, this requirement can be fulfilled through courses offered in Fall and Spring semester of the first year.

2

The Microbiology major encourages students with an interest in research to work with faculty through Independent Research courses as electives.

## ADVISING AND CAREERS

### Advising

Each student is assigned a professional academic advisor who works to understand student goals and helps to craft a path that best suits their needs. Additionally, faculty provide students with ongoing professional and scientific mentorship. More than 60% of students in the major conduct faculty-directed research. With low ratios of students to faculty, students also receive additional faculty mentoring in the classroom.

Current UW–Madison students should use Starfish to schedule an appointment with an advisor in the Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/>).

### Career opportunities

Alumni hold professional positions as physicians, research scientists, public health officials, dentists, optometrists, physician assistants, physical therapists, master brewers, quality control officers, health inspectors, professors, and more.

Graduates are recognized for their skills in laboratory research and scientific communication - skills that are valued by potential employers and professional schools.

## PEOPLE

### RESEARCH FACULTY

Daniel Amador-Noguez  
 Karthik Anantharaman  
 Jean-Michel Ané  
 Briana Burton  
 Kerri Coon  
 Cameron R. Currie  
 Timothy J. Donohue  
 Katrina T. Forest (Chair)  
 David Hershey  
 Betül Kaçar  
 Charles W. Kaspar  
 Erica L-W Majumder  
 Katherine D. McMahon  
 Charlie Mo  
 Sabine Pellett  
 Federico E. Rey  
 Garret Suen  
 Michael G. Thomas  
 Jade Wang  
 Karen M. Wassarman  
 Jae-Hyuk Yu

### TEACHING FACULTY

Melissa Christopherson  
 Timothy D. Paustian  
 Jon T. Roll  
 Michelle R. Rondon  
 Betty Slinger

### ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)  
 For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## WISCONSIN EXPERIENCE

### A rich history of microbiology

The UW-Madison is recognized as one of the birthplaces of Microbiology, as recognized by the American Society for Microbiology's *Milestones in Microbiology*. The UW-Madison is the first school to teach microbiology in the US and it is consistently ranked as one of the top public schools in the field.

### Research experience

The majority of microbiology majors conduct research in a faculty-led research lab where they receive direct mentorship from professors, scientists, and graduate students. Because the UW-Madison has the highest concentration of microbiologists on any U.S. campus, students have many research options.

### Student organization

The Microbiology Club is the undergraduate-led student chapter of the American Society of Microbiology. Follow them on Twitter at @MadisonMicrobio (<https://twitter.com/madisonmicrobio/>).

### Global engagement

Microbiology majors can participate in several international academic experiences including short-term field experiences, summer research opportunities, and semester-long exchange programs at top universities around the world. The UW Microbiology and Public Health in Northern Thailand program occurs during the summer.

### Community engagement and volunteering

Our students engage in numerous volunteer activities spearheaded by the Microbiology Club. This involves explaining microbiology and its impact during public educational events at UW-Madison. Many students also volunteer at local public schools to teach microbiology to elementary-aged students.

## RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships at <https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>

The Department of Bacteriology offers several scholarships to students in the Microbiology major. Awards are given annually and fund undergraduate research, provide travel stipends to microbiology students attending professional scientific conferences, or recognize outstanding graduating seniors. Learn more: <https://bs.microbiology.wisc.edu/awards-and-scholarships/>

## BIOCHEMISTRY

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal or population level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's-level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## DEGREES/MAJORS/CERTIFICATES

- Biochemistry, B.S. (CALs) (p. 115)

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Henzler-Wildman, Katie  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Ntambi, James  
 Palmenberg, Ann  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Rienstra, Chad  
 Senes, Alessandro  
 Sussman, Mike  
 Wright, Elizabeth

### ASSOCIATE PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan

### ASSISTANT PROFESSORS

Cantor, Jason  
 Coyle, Scott  
 Grant, Tim  
 Kirchdoerfer, Robert  
 Lim, Ci Ji  
 Romero, Phil  
 Simcox, Judith  
 Venturelli, Ophelia  
 Weeks, Amy

### ASSOCIATE FACULTY

Pennella, Mario  
 Shu, Erica

### ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)  
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## HOW TO GET IN

Students may declare the major via an appointment with the undergraduate advisor at any time.

The Biochemistry major is offered through either CALs or the College of Letters & Science (L&S). Students interested in the differences or transferring between CALs and L&S should meet with the advisor to discuss this in more detail.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CALs) have the option to declare biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies.

Students who intend to major in Biochemistry may not combine this major ("double major") with the Molecular and Cell Biology major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## REQUIREMENTS FOR THE MAJOR MATHEMATICS

### Mathematics Requirements

Code	Title	Credits
Complete one of the following options:		
MATH 221 & MATH 222	Calculus and Analytic Geometry I and Calculus and Analytic Geometry 2	9
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	14
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	10

## CHEMISTRY

### General Chemistry

Code	Title	Credits
Complete one of the following options:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Organic Chemistry

Code	Title	Credits
Complete ALL of the following courses:		
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

### Analytical Chemistry

Code	Title	Credits
Complete one of the following options:		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Physical Chemistry

Code	Title	Credits
Complete 4 credits of physical chemistry. Select one of the following options:		
CHEM 565	Biophysical Chemistry (recommended)	4

CHEM 561 Physical Chemistry 4  
& CHEM 563 and Physical Chemistry Laboratory I

## BIOLOGY

Students must complete either Option A (introductory + upper-level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

### Option A (Introductory + Upper-Level Biology)

#### Option A Introductory Biology

Code	Title	Credits
Complete one of the following introductory biology options:		
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	10
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	10

#### AND Option A Upper-Level Biology

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits—more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the course list below. To see courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program/)).

**Important:** A course may not double count in both the "Upper-Level Biology" and the "Biochemistry" requirements for the major. Biochemistry courses on this list can count only for "Upper-Level Biology" if they are above-and-beyond what is needed to fulfill the "Biochemistry" portion of the major. For example, if students have taken BIOCHEM 501, they will need one advanced biochemistry elective to fulfill the Biochemistry requirement, and then any additional biochemistry courses taken can count for Upper-Level Biology.

Code	Title	Credits
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 435	Fundamentals of Human Physiology	5
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3

AGRONOMY/A A E/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI 314	Poultry Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI 503	Avian Physiology	3
AN SCI 508	Poultry Products Technology	3
AN SCI 511	Breeder Flock and Hatchery Management	3
AN SCI 512	Management for Avian Health	3
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
AN SCI 610	Quantitative Genetics	3
AN SCI/ NUTR SCI 626	Experimental Diet Design	1
B M E/MED PHYS/ PHM COL- M/PHYSICS/ RADIOL 619	Microscopy of Life	3
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2

BIOCHEM 601	Protein and Enzyme Structure and Function	2	BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3	BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
BIOCHEM/ NUTR SCI 619	Advanced Nutrition: Intermediary Metabolism of Macronutrients	3	BOTANY 500	Plant Physiology	3-4
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3	BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3	BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2	BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3	BOTANY/ GENETICS/M M & I/ PL PATH 655	Biology and Genetics of Fungi	3
BSE 349	Quantitative Techniques for Biological Systems	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE 364	Engineering Properties of Food and Biological Materials	3	CHEM 575	Advanced Topics in Chemistry (Topics in Chemical Biology)	1-4
BSE 365	Measurements and Instrumentation for Biological Systems	3	CRB 625	Stem Cell Seminar	1
BSE/ENVIR ST 367	Renewable Energy Systems	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	DY SCI 378	Lactation Physiology	3
BSE 461	Food and Bioprocessing Operations	3	DY SCI 535	Dairy Farm Management Practicum	3
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM 321	Physiology of Insects	3
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM 331	Taxonomy of Mature Insects	4
B M I/ COMP SCI 576	Introduction to Bioinformatics	3	ENTOM 351	Principles of Economic Entomology	3
BOTANY 300	Plant Anatomy	4	ENTOM/ ZOOLOGY 371	Medical Entomology	3
BOTANY 305	Plant Morphology and Evolution	4	ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
BOTANY 330	Algae	3	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY/ PL PATH 332	Fungi	4	ENTOM/ ZOOLOGY 540	Theoretical Ecology	3
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4	ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
BOTANY 400	Plant Systematics	4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BOTANY 401	Vascular Flora of Wisconsin	4	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
BOTANY/ F&W ECOL 402	Dendrology	2	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
BOTANY 422	Plant Geography	3	ENVIR ST/ ATM OCN 520	Bioclimatology	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4	ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4

FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2	GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
FOOD SCI/ MICROBIO 325	Food Microbiology	3	GENETICS/ MD GENET 565	Human Genetics	3
FOOD SCI 410	Food Chemistry	3	GENETICS 566	Advanced Genetics	3
FOOD SCI 440	Principles of Food Engineering	3	HORT 320	Environment of Horticultural Plants	3
FOOD SCI 511	Chemistry and Technology of Dairy Products	3	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
FOOD SCI 514	Integrated Food Functionality	4	M M & I 301	Pathogenic Bacteriology	2
FOOD SCI 550	Fermented Foods and Beverages	2	M M & I 341	Immunology	3
FOOD SCI 610	Food Proteins	2	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
FOOD SCI 611	Chemistry and Technology of Dairy Products	3	M M & I/PATH- BIO 528	Immunology	3
F&W ECOL 300	Forest Biometry	4	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	MED PHYS/ H ONCOL 410	Radiobiology	2-3
F&W ECOL 318	Principles of Wildlife Ecology	3	MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 379	Principles of Wildlife Management	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL 401	Physiological Animal Ecology	3	MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
F&W ECOL 404	Wildlife Damage Management	3	MICROBIO 345	Introduction to Disease Biology	3
F&W ECOL 410	Principles of Silviculture	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL 415	Tree Physiology	3	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL 550	Forest Ecology	3	MICROBIO 520	Planetary Microbiology: What Life Here Tells Us About Life Out There	3
F&W ECOL 561	Wildlife Management Techniques	3	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	MICROBIO 525	Field Studies of Planetary Microbiology and Life in the Universe	3
F&W ECOL 590	Integrated Resource Management	3	MICROBIO 526	Physiology of Microorganisms	3
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1	MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1	MICROBIO 551	Capstone Research Project in Microbiology	2
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1	MICROBIO 607	Advanced Microbial Genetics	3
F&W ECOL 655	Animal Population Dynamics	3	MICROBIO 632	Industrial Microbiology/ Biotechnology	2
GENETICS 466	Principles of Genetics	3	NEURODPT/ NTP 629	Molecular and Cellular Mechanisms of Memory	3
GENETICS 467	General Genetics 1	3	NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4
GENETICS 468	General Genetics 2	3			
GENETICS 525	Epigenetics	3			
GENETICS 545	Genetics Laboratory	2			

NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4	ZOOLOGY 570	Cell Biology	3
NUTR SCI 332	Human Nutritional Needs	3	ZOOLOGY 603	Endocrinology	3-4
NUTR SCI 431	Nutrition in the Life Span	3	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ONCOLOGY 401	Introduction to Experimental Oncology	2	ZOOLOGY 612	Comparative Physiology Laboratory	2
ONCOLOGY/ M&ENVTOX/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3	ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind	3
PHM SCI 310	Drugs and Their Actions	2	ZOOLOGY 625	Development of the Nervous System	2
PHM SCI/B M E 430	Biological Interactions with Materials	3			
PL PATH 300	Introduction to Plant Pathology	4			
PL PATH/ SOIL SCI 323	Soil Biology	3			
PL PATH 517	Plant Disease Resistance	2-3			
PL PATH 558	Biology of Plant Pathogens	3			
PL PATH 559	Diseases of Economic Plants	3			
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3			
PL PATH 622	Plant-Bacterial Interactions	2-3			
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses	3			
PSYCH 454	Behavioral Neuroscience	3			
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3			
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3			
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3			
ZOOLOGY 300	Invertebrate Biology and Evolution	3			
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2			
ZOOLOGY 304	Marine Biology	2			
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2			
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3			
ZOOLOGY 425	Behavioral Ecology	3			
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5			
ZOOLOGY 470	Introduction to Animal Development	3			
ZOOLOGY 504	Modeling Animal Landscapes	3-5			
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3			
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2			
ZOOLOGY/ PSYCH 523	Neurobiology	3			
ZOOLOGY/ GEOSCI 541	Paleobiology	3			
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3			
ZOOLOGY 555	Laboratory in Developmental Biology	3			

  

<b>Option B (Biocore)</b>		
<b>Option B (Biocore)</b>		
Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply and be accepted to the program to take BIOCORE classes.		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Complete these lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Principles of Physiology	3
BIOCORE 587	Biological Interactions	3
Complete two of these lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	4
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	
<b>Total Credits</b>		<b>16</b>

  

<b>PHYSICS (CALCULUS-BASED)</b>		
<b>Physics Requirements</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Complete one of the following options: <sup>1</sup>		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10
<b>1</b>		
Students should consult with their advisor if they have credit for PHYSICS 103 and PHYSICS 104 to discuss options.		

  

<b>BIOCHEMISTRY</b>		
One set of introductory coursework <b>and</b> the capstone course are required, for a total of <b>three</b> BIOCHEM courses.		
<b>Introductory Courses</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Complete one of the following options:</b>		
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6
<b>OR</b>		
BIOCHEM 501	Introduction to Biochemistry	3



AND one of the following advanced biochemistry electives:

BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism
BIOCHEM 550	Principles of Human Disease and Biotechnology
BIOCHEM 570	Computational Modeling of Biological Systems
BIOCHEM/ M M & I 575	Biology of Viruses
BIOCHEM 601	Protein and Enzyme Structure and Function
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology
BIOCHEM/ BOTANY 621	Plant Biochemistry
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals
BIOCHEM/ PHMCOL-M/ ZOOLOGY 630	Cellular Signal Transduction Mechanisms
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease

### Capstone Course (required)

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may

apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## HONORS IN THE MAJOR IN BIOCHEMISTRY: REQUIREMENTS

To earn Honors in the Major in Biochemistry, students must satisfy the requirements for the major (above) as well as the following requirements. All courses used for Honors in the Major requirements must receive "B" or better grades to fulfill requirements.

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all BIOCHEM courses, and all courses accepted in the major
- Complete BIOCHEM 507 and BIOCHEM 508 for Honors
- Complete a two-semester Senior Honors Thesis for 6 credits total, present research in a public forum and submit documentation to CALS Academic Affairs.
- Complete at least 14 credits of any combination of the following coursework:
  - Honors courses that would fulfill the biological science requirement in the major (see above)
  - Statistics coursework (does not need to be taken for Honors): STAT 301, STAT 371, or STAT/B M I 541
  - Biochemistry elective coursework beyond the major requirements (does not need to be taken for Honors): NUTR SCI/ BIOCHEM 510, BIOCHEM 550, BIOCHEM 570, M M & I/ BIOCHEM 575, BIOCHEM 601, MATH/B M I/ BIOCHEM/ BMOLCHEM 609, MICROBIO/BIOCHEM/GENETICS 612, MD GENET/BIOCHEM/GENETICS 620, BOTANY/ BIOCHEM 621, BIOCHEM 625, BIOCHEM/PHMCOL-M/ ZOOLOGY 630, BIOCHEM/NUTR SCI 645
  - Honors coursework in MATH, CHEM, or PHYSICS from the list below:

### Math

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

**Chemistry**

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory I	1
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory II	1

**Physics**

Code	Title	Credits
PHYSICS 201	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5
PHYSICS 248	A Modern Introduction to Physics	5
PHYSICS 249	A Modern Introduction to Physics	4

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Identify the fundamental biochemical principles that underlie all biological processes.
2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.

3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.
5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

**FOUR-YEAR PLAN****FOUR-YEAR PLAN****SAMPLE BIOCHEMISTRY FOUR-YEAR PLAN****Freshman**

Fall	Credits	Spring	Credits
CHEM 103 or 109		4-5 CHEM 104 (if needed)	5
MATH 221		5 MATH 222	4
COMM A or Elective		3 Humanities Course	3
INTER-AG 155 or BIOCHEM 100 <sup>1</sup>		1 Elective	3
			<b>13-14</b>

**Total Credits 28-29****Sophomore**

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 344	2
ZOOLOGY/BIOLOGY/BOTANY 151 (or BIOCORE 381 & BIOCORE 382)		5 CHEM 345	3
Humanities Course		3 ZOOLOGY/BIOLOGY/BOTANY 152 (or BIOCORE 383 & BIOCORE 384)	5
Social Science Course		3 Ethnic Studies Course	3
			<b>14</b>

**Total Credits 27****Junior**

Fall	Credits	Spring	Credits
BIOCHEM 507 <sup>3</sup>		3 BIOCHEM 508	3
PHYSICS 207 or 201		5 PHYSICS 208 or 202	5
Upper-Level Biology for major (or BIOCORE 485 & BIOCORE 487 if needed)		Upper-Level Biology for major (or BIOCORE 587)	
International Studies Course		3 CHEM 327	4
Electives		2-3	
			<b>13-14</b>

**Total Credits 25-26****Senior**

Fall	Credits	Spring	Credits
CHEM 565 or BIOCHEM 551		4 BIOCHEM 551 or CHEM 565	4

BIOCHEM 691 or 681 (if needed) <sup>4</sup>	2-3 BIOCHEM 692 or 682 (if needed)	2-3
Electives or Remaining Requirements	6-10 Electives or Remaining Requirements	6-10
<b>12-17</b>		<b>12-17</b>

**Total Credits 24-34**

1

First-year students interested in exploring the major can enroll in INTER-AG 155 or BIOCHEM 100.

2

BIOCORE sequence requires four lecture courses plus two lab courses. Student may also take ZOOLOGY/BIOLOGY/BOTANY 151 and ZOOLOGY/BIOLOGY/BOTANY 152 plus 6 credits of upper-level Biology instead of BIOCORE.

3

Students must take either: (1) both BIOCHEM 507 and BIOCHEM 508 or (2) BIOCHEM 501 and one additional course in Biochemistry from the 500/600-level electives.

4

Senior Thesis, independent study or work experience in laboratory are recommended, but are not required. However, a Senior Honors Thesis is required to earn Honors in the Major.

goals. In short, CALS Career Services helps students in the College of Agriculture and Life Sciences discover themselves, find opportunities, and develop the skills they need for success after graduation.

CALS Career Services can also assist students in career advising, résumé and cover letter writing, networking opportunities, and interview skills, as well as assisting undergraduates to begin their career exploration early in their undergraduate career.

Students should set up their profiles in Handshake (<https://wisc.joinhandshake.com/login/>) to take care of everything they need to explore career events, manage their campus interviews, and apply to jobs and internships from 200,000+ employers around the country.

- CALS Career Services (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>)
- Set up a career advising appointment (<https://cals.wisc.edu/academics/undergraduate-students/career-services/advising/>)
- INTER-LS 210 (<https://guide.wisc.edu/search/?P=INTER-LS%20210>) L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)
- INTER-LS 215 (<https://guide.wisc.edu/search/?P=INTER-LS%20215>) Communicating About Careers (3 credits, fulfills Com B General Education Requirement)
- Handshake (<https://wisc.joinhandshake.com/login/>)

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, use Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).
- Send an email with brief questions to [biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu).
- Drop-in advising hours for quick (10–15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry / Microbiology Undergraduate Advising Hub website (<https://biochemmicrobio.wisc.edu/>) each semester.

### CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.
- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

### CALS CAREER RESOURCES

CALS Career Services provides expertise to support students and alumni of the college as they explore, experience and achieve their career

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Henzler-Wildman, Katie  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Ntambi, James  
 Palmenberg, Ann  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Rienstra, Chad  
 Senes, Alessandro  
 Sussman, Mike  
 Wright, Elizabeth

### ASSOCIATE PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan

### ASSISTANT PROFESSORS

Cantor, Jason  
 Coyle, Scott  
 Grant, Tim  
 Kirchdoerfer, Robert  
 Lim, Ci Ji

Romero, Phil  
 Simcox, Judith  
 Venturelli, Ophelia  
 Weeks, Amy

## ASSOCIATE FACULTY

Pennella, Mario  
 Shu, Erica

## ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)

For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW–Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB/>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biochemistry/>) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program/)) and the advisors can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## BIOLOGICAL SYSTEMS ENGINEERING

Biological systems engineering (BSE), an accredited engineering program in the College of Agricultural and Life Sciences, applies engineering principles to natural systems and machinery design that impact production of food, water, energy, and more. Uniquely positioned at the intersection of engineering and sustainability with multiple flexible study options to match a wide range of interests, students can follow defined tracks in natural resources and environmental engineering, food or bioprocess engineering, machinery systems engineering, or customize their classes using the general option.

Students benefit from a low student to faculty ratio and individualized advising that fosters teamwork. They have access to all resources for

UW–Madison students in the College of Engineering, plus those available to students in the College of Agricultural and Life Sciences. Admission is not competitive, meaning all students who meet the criteria are admitted. The program provides a broad education in physical sciences and engineering, but also teaching skills in fabrication, electronics, design, product development, and management.

The BSE program, like all undergraduate engineering programs on the UW–Madison campus, is accredited by ABET (<http://www.abet.org>) (Accreditation Board for Engineering and Technology) and prepares students for licensure as a professional engineer. Students who graduate from the program are well prepared for research and engineering careers in industry or government, or to continue their studies in graduate school.

## LEARN THROUGH HANDS-ON, REAL WORLD EXPERIENCES

BSE offers hands-on courses and experiences. First-year and senior-level design courses challenge students to develop solutions, build and test prototypes, and analyze results. Students integrate practical work experience through co-operative education (co-op) programs where students earn full-time salaries while working for a firm or through for-credit internships (paid or unpaid).

## BUILD COMMUNITY AND NETWORKS

The program fosters community building through advising, coursework and outside activities. Students can join the UW–Madison student chapter of the professional American Society of Agricultural and Biological Engineers (ASABE) to meet professionals, tour companies, explore career paths, and participate in national design competitions. Additionally, the department hosts student events, such as our fall mixer or Thanksgiving meal, to allow students to get to know each other and the faculty.

## CUSTOMIZE A PATH OF STUDY

All majors take core engineering courses, then specialize in areas including machinery systems, natural resources and engineering, food engineering, or bioprocessing. Students can also develop their own customized focus areas. Many students also complete certificates in sustainability or renewable energy.

## MAKE A STRONG START

An introductory engineering design course allows students to make personal connections with peers and learn fabrication skills on various industry machines in the BSE shop. In all courses, instructors offer homework help sessions to support students and encourage the formation of study groups.

## GAIN GLOBAL PERSPECTIVE

Students can choose from study abroad options, including courses taught in English, offered through the College of Agricultural and Life Sciences, the College of Engineering, or campus wide opportunities. Recent students have traveled to China, France, Costa Rica, Africa, and more. Programs occur over full semesters or during summer and winter breaks. International internships, many with summer options, offer additional opportunities to gain global experience.

## DEGREES/MAJORS/CERTIFICATES

- Biological Systems Engineering, B.S. (p. 125)

## PEOPLE

First contact for prospective students is Betsy Wood, Academic Advising Manager/ Student Services, (608) 262-3310, [betsy.wood@wisc.edu](mailto:betsy.wood@wisc.edu). Schedule an appointment with her via Starfish.

## PROFESSORS

Neslihan Akdeniz, Robert Anex, Christopher Choi, Matt Digman, Sundaram Gunasekaran, Awad Hanna, Margaret Kalcic, Krishnapuram Karthikeyan, Brian Luck, Xuejun Pan, Douglas Reinemann, Troy Runge, John Shutske, Paul Stoy, Anita Thompson, and Zhou Zhang

## INSTRUCTORS

Kody Habeck and Jeff Nelson

## STUDENT ADVISOR

Betsy Wood

Click here for the full BSE directory of contacts (<https://bse.wisc.edu/people/>)

## BIOLOGICAL SYSTEMS ENGINEERING, B.S.

Biological systems engineering (BSE), an accredited engineering program in the College of Agricultural and Life Sciences, applies engineering principles to natural systems and machinery design that impact production of food, water, energy, and more. Uniquely positioned at the intersection of engineering and sustainability with multiple flexible study options to match a wide range of interests, students can follow defined tracks in natural resources and environmental engineering, food or bioprocess engineering, machinery systems engineering, or customize their classes using the general option.

Students benefit from a high faculty to student ratio and individualized advising that fosters teamwork. They have access to all resources for UW-Madison students in the College of Engineering, plus those available to students in the College of Agricultural and Life Sciences. Admission is not competitive, meaning all students who meet the criteria are admitted. The program provides a broad education in physical sciences and engineering, but also teaching skills in fabrication, electronics, design, product development, and management.

The BSE program, like all undergraduate engineering programs on the UW-Madison campus, is accredited by ABET (the Accreditation Board for Engineering & Technology) and prepares students for licensure as a professional engineer. Students who graduate from the program are well prepared for research and engineering careers in industry or government, or to continue their studies in graduate school.

## LEARN THROUGH HANDS-ON, REAL WORLD EXPERIENCES

BSE offers hands-on courses and experiences. First-year and senior-level design courses challenge students to develop solutions, build and test prototypes, and analyze results. Students integrate practical work experience through co-operative education (co-op) programs where students earn full-time salaries while working for a firm or through for-credit internships (paid or unpaid).

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The program fosters community building through advising, coursework and outside activities. Students can join the UW-Madison student chapter of the professional American Society of Agricultural and Biological Engineers (ASABE) to meet professionals, tour companies, explore career paths, and participate in national design competitions. Additionally, the department hosts student events, such as our fall mixer or harvest meal, to allow students to get to know each other and the faculty.

## CUSTOMIZE A PATH OF STUDY

All majors take core engineering courses, then specialize in areas including machinery systems, natural resources and engineering, food engineering, or bioprocessing. Students can also develop their own customized focus areas. Many students also complete certificates in sustainability or renewable energy.

## MAKE A STRONG START

An introductory engineering design course allows students to make personal connections with peers and learn fabrication skills on various industry machines in the BSE shop. In all courses, instructors offer homework help sessions to support students and encourage the formation of study groups.

## GAIN GLOBAL PERSPECTIVE

Students can choose from study abroad options, including courses taught in English, offered through the College of Agricultural and Life Sciences, the College of Engineering, or campus wide opportunities. Recent students have traveled to China, France, Costa Rica, Africa, and more. Programs occur over full semesters or during summer and winter breaks. International internships, many with summer options, offer additional opportunities to gain global experience. Students can explore studying abroad as a BSE major utilizing the Biological Systems Engineering Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

Entry to this professional program requires students to meet the five admission requirements detailed below. Students are admitted to the department as pre-Biological Systems Engineering until they meet the admission criteria. **Admission eligibility must be confirmed by the department.**

1. Must complete a minimum of 24 degree credits.
2. Must have completed a minimum of 17 graded credits of calculus, statistics, chemistry, computer science, statics, biology, and physics courses required for a BSE degree.
3. Must have a math and science grade point average (M&SGPA) of at least 2.65 with a minimum grade of C in every course used to calculate the M&SGPA. The M&SGPA is based on: math courses numbered 217 and above (MATH 228 is excluded); statistics courses numbered 224 and above; all chemistry courses; any biology courses (courses with biological science breadth; maximum three courses, any required course must be included if taken); computer sciences courses numbered 302 and above (COMP SCI 402 is excluded); E M A 201; BSE 380; and physics courses numbered 201 and above. For any course that a student repeats, only the most recent grade will be used in the calculation. Any transfer course from another university that is included in the previous list must be included in the GPA calculation.

4. Must be in good academic standing—i.e., not on academic probation or dropped status.
5. Must successfully complete introductory chemistry (CHEM 103 & CHEM 104, or CHEM 109, or equivalent) and math through MATH 222.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		

First Year Seminar (p. 46)	1
International Studies (p. 47)	3
Physical Science Fundamentals	4-5
CHEM 103      General Chemistry I	
or CHEM 108      Chemistry in Our World	
or CHEM 109      Advanced General Chemistry	
Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

### NAMED OPTIONS WITHIN THE MAJOR

**Students may complete the Biological Systems Engineering General Program or select a Named Option. The course requirements on this page represent the general program. Students are encouraged to consider one of the Named Options (Food and Bioprocess Engineering; Machinery Systems Engineering; or Natural Resources and Environmental Engineering). Links to learn more about these options, including the course requirements, are included below.**

View as listView as grid

- BIOLOGICAL SYSTEMS ENGINEERING: FOOD AND BIOPROCESS ENGINEERING (P. 131)
- BIOLOGICAL SYSTEMS ENGINEERING: MACHINERY SYSTEMS ENGINEERING (P. 133)
- BIOLOGICAL SYSTEMS ENGINEERING: NATURAL RESOURCES AND ENVIRONMENTAL ENGINEERING (P. 134)

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Major Requirements</b>		
Common Requirements		53
General Program Classes and Technical Electives		43
Capstone		5
<b>Total Credits</b>		<b>101</b>

### COMMON REQUIREMENTS

Code	Title	Credits
<b>The Biological Systems Engineering program requires completion of a minimum of 125 credits to be eligible for graduation. Note that this is higher than the minimum for other CALS programs.</b>		
<b>Mathematics and Statistics</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4

MATH 234	Calculus--Functions of Several Variables	4
MATH 319 or MATH 320	Techniques in Ordinary Differential Equations Linear Algebra and Differential Equations	3
STAT 324	Introductory Applied Statistics for Engineers	3

**Chemistry**

Select one of the following: 5-9

CHEM 109	Advanced General Chemistry (Recommended)	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II <sup>1</sup>	

**Biology**

BSE 349	Quantitative Techniques for Biological Systems	3
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One additional Biological Science breadth Course; the following courses are preferred choices:<sup>2</sup> 2-5

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
ZOOLOGY 153	Introductory Biology	
BIOLOGY/ BOTANY 130	General Botany	
BIOLOGY/ ZOOLOGY 101	Animal Biology	
AN SCI/ DY SCI 101	Introduction to Animal Sciences <sup>2</sup>	
AGRONOMY 100	Principles and Practices in Crop Production <sup>2</sup>	
MICROBIO 101	General Microbiology <sup>3</sup>	
MICROBIO 303	Biology of Microorganisms <sup>3</sup>	

**Physics**

E M A 201	Statics <sup>4</sup>	3
PHYSICS 202	General Physics	5

**Foundation**

BSE 270	Introduction to Computer Aided Design	3
BSE 380 or COMP SCI 310	Introductory Data Science for the Agricultural and Life Sciences (preferred) Problem Solving Using Computers	3
BSE 310 or I SY E 313	Project Economics & Decision Analysis (preferred) Engineering Economic Analysis	3

**Core**

BSE 249 or CBE 250	Engineering Principles for Biological Systems <sup>5</sup> Process Synthesis	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE 308	Career Management for Engineers	1

**Total Credits** 53-60**1**

Taking the combination of CHEM 103 and CHEM 104 instead of CHEM 109 may increase the total minimum number of credits required to complete the program.

**2**

Machinery Systems students may select AN SCI/DY SCI 101 or AGRONOMY 100 to also satisfy the Production Agriculture requirement. Any biological science course of 2 or more credits is accepted. Additional courses taken may be counted as Technical Electives.

**3**

MICROBIO 101 or MICROBIO 303 required for Food & Bioprocess Engineering specialization.

**4**

E M A 201 Statics is an acceptable prerequisite for PHYSICS 202 General Physics.

**5**

Students selecting the Food & Bioprocess Engineering option who plan to enroll in CBE 310 Chemical Process Thermodynamics and CBE 320 Introductory Transport Phenomena must take CBE 250 here as a prerequisite. Students selecting the Food & Bioprocess Engineering option who plan to enroll in M E 361 Thermodynamics and M E 363 Fluid Dynamics are recommended to take BSE 249 here.

**GENERAL PROGRAM REQUIREMENTS**

Code	Title	Credits
M E 361 or CBE 310	Thermodynamics <sup>1</sup> Chemical Process Thermodynamics	3
Select one of the following: <sup>1</sup>		3-4
M E 363	Fluid Dynamics	
CIV ENGR 310	Fluid Mechanics	
CBE 320	Introductory Transport Phenomena	
BSE 464	Heat and Mass Transfer in Biological Systems	3
E M A 303 or M E 306	Mechanics of Materials Mechanics of Materials	3
Select a minimum of three of the following:		6-9
BSE 301	Land Information Management	
BSE 364	Engineering Properties of Food and Biological Materials	
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE 405	Intelligence and Automation in Agriculture	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Water Management Systems	
BSE/M E 475	Engineering Principles of Agricultural Machinery	

BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE 571	Small Watershed Engineering	
Select a minimum of 9 credits of 300 level or above non-BSE engineering courses		9
<b>Total Credits</b>		<b>27-31</b>

1

Take BSE 249 and M E 361 and M E 363, or take CBE 250 and CBE 310 and CBE 320.

## TECHNICAL ELECTIVES

Select courses from one or more of the following four technical elective categories to bring the total number of credits in the General Program Area or in the selected specialization area to 43. See the BSE Undergraduate Student Handbook for a list of recommended technical electives for various areas of specialization.

### A. INTRODUCTION TO ENGINEERING COURSES (FRESHMEN ONLY)

Code	Title	Credits
INTEREGR 170	Design Practicum	3
BSE 170	Product Design Practicum	2

### B. INDEPENDENT STUDY/INSTRUCTION COURSES

CALS or CoE courses with a 001, 299, 399, or 699 course number. No more than 3 credits of coursework in this category can be used to meet technical elective requirements.

### C. UPPER-LEVEL COURSES

#### Part 1. Upper-Level Engineering Courses

This includes BSE courses not taken to meet other curricular requirements. This does not include independent study/instruction courses.

Code	Title	Credits
Any Engineering course numbered 300 or above		
E M A 202 or M E 240	Dynamics	3

#### Part 2. Upper-Level Science Courses

This includes BSE courses not taken to meet other curricular requirements. This does not include independent study/instruction courses.

Code	Title	Credits
Advanced biological, natural, and physical science courses (i.e., courses with a B, N, or P designation)		
CHEM 341	Elementary Organic Chemistry	3
CHEM 342	Elementary Organic Chemistry Laboratory	1
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
CHEM/M S & E 421	Polymeric Materials	3

AGRONOMY/ATM OCN/SOIL SCI 532	Environmental Biophysics	3
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## D. LOWER-LEVEL SCIENCE AND ENGINEERING COURSES, BREADTH COURSES

Elementary and intermediate biological, natural and physical science courses except elementary and intermediate math courses; College of Engineering courses with a 100 or 200 level designation; College of Agricultural and Life Sciences courses, Institute of Environmental Studies courses, and/or School of Business courses. Independent study/instruction courses cannot be counted in this category. No more than 12 credits of coursework in this category can be used to meet technical elective requirements.

## CAPSTONE

Code	Title	Credits
BSE 508	Biological Systems Engineering Design Practicum I	2
BSE 509	Biological Systems Engineering Design Practicum II <sup>1</sup>	3
Fundamentals of Engineering Exam <sup>1</sup>		

1

Grades for BSE 509 will not be posted until proof of examination is presented.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. Display effective communication with a range of audiences.



- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- Display teamwork skills, functioning effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- Acquire and apply new knowledge as needed, using appropriate learning strategies.

300 level or higher non-BSE engineering course	3 300 level or higher non-BSE engineering course	3
Technical Electives	4 Technical Electives	4
BSE General Program Elective	3 Elective Course	3
Humanities	3	
	<b>16</b>	<b>13</b>

### Total Credits 126-127

Students must complete at least 125 total credits to be eligible for graduation.

1

MATH course dependent on placement score and transfer credit evaluation.

2

If CHEM 103 & CHEM 104 are taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of the first year, and move BSE 310 to the fall semester of the second year.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—GENERAL PROGRAM

#### First Year

Fall	Credits	Spring	Credits
MATH 221 <sup>1</sup>		5 MATH 222	4
CHEM 109 <sup>2</sup>		5 BSE 170 or INTEREGR 170	2-3
Biological Science Course		3 BSE 310	3
Humanities		3 LSC 100 (or other COMM A) Ethnic Studies	3 3
	<b>16</b>		<b>15-16</b>

#### Second Year

Fall	Credits	Spring	Credits
E M A 201		3 BSE 308	1
MATH 234		4 BSE 349	3
BSE 249		3 MATH 320	3
BSE 270		3 PHYSICS 202	5
BSE 380		3 BSE General Program Elective	3
	<b>16</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
M E 306		3 INTEREGR 397 (or other COMM B)	3
M E 361		3 M E 363	3
STAT 324		3 BSE 365	3
300 level or higher non-BSE engineering course		3 BSE 508	2
Technical Elective Course		3 BSE General Program Elective	3
Elective		3 CALS International Studies	3
	<b>18</b>		<b>17</b>

#### Fourth Year

Fall	Credits	Spring	Credits
BSE 509		3 BSE 464	3

## ADVISING AND CAREERS

### ADVISING

All students are assigned an advisor when they join the department. First-year students work with a professional staff advisor; more advanced students transition to a faculty advisor in their specialization area. The BSE department promotes personalized advising through accessible appointments and requires advising meetings at least once each semester.

### CAREER OPPORTUNITIES

BSE graduates have great careers developing new products, processes and systems to protect soil, air and water quality while meeting demand for food, materials, and energy. Alumni hold positions in research and engineering in organizations developing off-road equipment, food production, renewable energy systems, animal housing, environmental control systems, irrigation and drainage systems, and with engineering consulting companies. Earning a BSE degree puts students on track to become a professional engineer and take the Fundamentals of Engineering (FE) exam, the first step toward licensure which opens even more career opportunities.

## PEOPLE

First contact for prospective students is Betsy Wood, Academic Advising Manager/ Student Services, (608) 262-3310, [betsy.wood@wisc.edu](mailto:betsy.wood@wisc.edu). Schedule an appointment with her via Starfish.

## PROFESSORS

Neslihan Akdeniz, Robert Anex, Christopher Choi, Matt Digman, Sundaram Gunasekaran, Awad Hanna, Margaret Kalcic, Krishnapuram Karthikeyan, Brian Luck, Xuejun Pan, Douglas Reinemann, Troy Runge, John Shutske, Paul Stoy, Anita Thompson, and Zhou Zhang

### INSTRUCTORS

Kody Habeck and Jeff Nelson

## STUDENT ADVISOR

Betsy Wood

Click here for the full BSE directory of contacts (<https://bse.wisc.edu/people/>)

## WISCONSIN EXPERIENCE

### STUDENT ORGANIZATIONS

The American Society of Agricultural and Biological Engineers (ASABE) Pre-professionals Club (<https://asabe.bse.wisc.edu/>) connects students to professional development opportunities.

UW–Madison offers many other student groups to encourage networking and development of leadership skills. Some cater to agricultural interests, others focus on engineering and biosciences. Many food and bioprocess engineering students are active in the Food Science Club. Other options include Minorities in Agriculture, Natural Resources and Related Sciences (<https://win.wisc.edu/organization/manrrs/>), Engineers for a Sustainable World (UW–Madison Chapter) (<https://win.wisc.edu/organization/esw-uwmadison/>), and more. Many student organizations exist to support engineering students who identify as Native American, Black, Latinx, or part of the LGBTQIA+ community in professional development and academic success.

Find more student organizations (<https://win.wisc.edu/organizations/>).

### COMPETITIVE TEAMS

The BSE department is the home of several engineering design teams that compete in one of several [National Student Design Competitions](#) through the American Society of Agricultural and Biological Engineers (ASABE). The Quarter-Scale Tractor Team (<https://badgerpulling.bse.wisc.edu/>) designs and builds a small-scale tractor judged by industry experts and put to the test in performance events against other national and international university teams. The Robotics Student Design Competition allows students to develop skills in robotic systems, electronics, and sensing technologies by simulating a fully autonomous robotic solution to a common agricultural process.

Many BSE students participate in or hold leadership positions in other engineering design competition teams, such as: Formula SAE (<https://vehicles.wisc.edu/formula/formulaabout.html>), SAE Clean Snowmobile (<https://vehicles.wisc.edu/SNOWMOBILE/SNOWMOBILEabout.html>), ASCE Concrete Canoe (<https://win.wisc.edu/organization/canoe/>), Human Powered Vehicle Challenge (<https://hpvc.sl.cenr.wisc.edu/new/>), Collegiate Wind Power Competition, (<https://energy.wisc.edu/news/uw-madison-team-compete-2022-collegiate-wind-competition/>) Baja Team (<https://vehicles.wisc.edu/BAJA/BAJAabout.html>), and UW Hybrid (<https://vehicle.sl.cenr.wisc.edu/>)

### INTERNSHIPS

Internships are an excellent way for students to ground what they have learned in practical applications. Students also participate in co-operative (co-op) education programs where they earn full-time salaries while working for a company. The program supports students in finding co-ops and internships and provides flexibility in class plans for opportunities that occur during fall or spring semesters. Students learn of pre-professional internships through on-campus career fairs—primarily by those hosted by the CoE and CALS—and through regular email announcements. Students also have opportunities to intern with professors performing research over

the summer. Although not a program requirement, school credit may be earned for internships.

### RESEARCH EXPERIENCE

Many professors in BSE and across campus provide opportunities for students to gain hands-on experience in research labs. Undergraduate researchers learn how knowledge is constructed, gain independence, and increase their self-confidence. These benefits are an advantage in any career path. BSE students are sought out by research groups across campus and governmental agencies because of their unique research experiences.

### GLOBAL ENGAGEMENT

The program supports study abroad and international experiences with flexible scheduling. In addition to study abroad programs and internships, students can volunteer with student organizations like Engineers Without Borders (<http://ewbuwmadison.weebly.com/>). Students can choose to fulfill their International Studies requirement with an appropriate study abroad course.

### COMMUNITY ENGAGEMENT AND VOLUNTEERING

BSE students participate in campus-wide volunteer programs like Badger Volunteers, offering their expertise in education, sustainability, and public health to support community organizations. In addition, BSE students volunteer through student organizations to work on special projects related to engineering. Past projects included the fabrication of bioreactors for communities in Uganda or Habitat for Humanity projects in Madison, WI.

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually from a standard application (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

Each year dozens of outstanding Biological Systems Engineering students are awarded scholarships from funds designated exclusively for this major. These funds seek to support students based on many different criteria such as financial need, specific academic interests, extracurricular involvement, and academic success.

### RESOURCES

BSE students have full access to the resources of both the College of Agricultural and Life Sciences and the College of Engineering, including Career Services, Study Abroad programs, access to specialized engineering software, and computer labs.

The Biological Systems Engineering Shop (<https://bse.wisc.edu/shop-information/shop-info-for-students/>) provides students hands-on experience with machining equipment commonly used in industry. Students can learn machining and metal fabrication techniques, as well as woodworking skills, and improve their understanding of design and assembly processes. Training and support are available for all skill levels. In addition, BSE students have access to all College of Engineering fabrication shops and the UW Makerspace (<https://making.engr.wisc.edu/>).

Other resources in the Agricultural Engineering Building include a dedicated student computer lab and a student lounge available for group study or individual work. Department-wide social events are also held here.

## ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Biological and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## BIOLOGICAL SYSTEMS ENGINEERING: FOOD AND BIOPROCESS ENGINEERING

Food and bioprocess engineers develop and manage equipment and systems that process and distribute food and other biologically based materials. They are required by the food industry to help develop processes that add value to food products. These processing technologies are designed to improve the storage life and marketability of food products, reduce their transportation costs, handle processing wastes, and develop alternative uses for biological materials. (For example, newspaper and soy flour are used to make the construction material, Environ™, and corn stalks can be used to make chemical absorbent pads.)

The food industry makes up one of the largest segments of our nation's economy and continues to enjoy steady growth due to the ever-changing needs of consumers and increased awareness of nutritional and environmental issues. Food and bioprocess engineers play a vital role in meeting this need. From potato chips to microwavable entrees, food and bioprocess engineers continue to develop processes to convert raw materials from the farm to food products for the dining room table.

## REQUIREMENTS

Code	Title	Credits
<b>Major Requirements</b>		
Common Requirements		53
Specialization & Technical Electives		43
Capstone		5
<b>Total Credits</b>		<b>101</b>

## COMMON REQUIREMENTS

See Major Requirements (p. 126).

## FOOD & BIOPROCESS ENGINEERING SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
CHEM 341	Elementary Organic Chemistry (preferred)	3
or CHEM 343	Organic Chemistry I	
M E 361	Thermodynamics <sup>1</sup>	3
or CBE 310	Chemical Process Thermodynamics	
M E 363	Fluid Dynamics <sup>1</sup>	3-4
or CBE 320	Introductory Transport Phenomena	
BSE 464	Heat and Mass Transfer in Biological Systems	3
Select one of the following:		18-20
Food Engineering Track		
Bioprocess Engineering Track		
<b>Total Credits</b>		<b>30-33</b>

1

Take BSE 249 and M E 361 and M E 363, or take CBE 250 and CBE 310 and CBE 320.

## FOOD ENGINEERING TRACK

Code	Title	Credits
FOOD SCI 301	Introduction to the Science and Technology of Food	3
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing	4
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE 461	Food and Bioprocessing Operations	3
Select one of the following BSE breadth courses:		2-3
BSE 301	Land Information Management	
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE 405	Intelligence and Automation in Agriculture	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Water Management Systems	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE 571	Small Watershed Engineering	
<b>Total Credits</b>		<b>18-19</b>

## BIOPROCESS ENGINEERING TRACK

Code	Title	Credits
MICROBIO 102	General Microbiology Laboratory	2
or MICROBIO 304	Biology of Microorganisms Laboratory	
BIOCHEM 501	Introduction to Biochemistry	3

BSE 364	Engineering Properties of Food and Biological Materials	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
BSE 461	Food and Bioprocessing Operations	3
Select one of the following BSE breadth courses:		2-3
BSE 301	Land Information Management	
BSE/CIV ENGR/SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE 472	Sediment and Bio-Nutrient Engineering and Management	
BSE 473	Water Management Systems	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
BSE 571	Small Watershed Engineering	
<b>Total Credits</b>		<b>19-20</b>

## TECHNICAL ELECTIVES

See Major Requirements (p. 126).

## CAPSTONE

See Major Requirements (p. 126).

## FOUR-YEAR PLAN

### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—FOOD AND BIOPROCESS ENGINEERING SPECIALIZATION—BIOPROCESS ENGINEERING TRACK

#### First Year

Fall	Credits	Spring	Credits
MATH 221 <sup>1</sup>		5 MATH 222	4
CHEM 109 <sup>2</sup>		5 BSE 170 or INTEREGR 170	2-3
LSC 100 (or other COMM A)		3 BSE 310	3
Ethnic Studies		3 MICROBIO 101 & MICROBIO 102	5
	<b>16</b>		<b>14-15</b>

#### Second Year

Fall	Credits	Spring	Credits
BSE 249 or CBE 250		3 BSE 308	1
BSE 270		3 BSE 349	3
MATH 234		4 MATH 320	3
CHEM 341		3 INTEREGR 397 (or other COMM B)	3
E M A 201		3 PHYSICS 202	5
	<b>16</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
M E 361		3 BSE 364	3
BSE/ENVIR ST 367		3 BSE 365	3
BIOCHEM 501		3 BSE 508	2
STAT 324		3 M E 363 or CBE 320	3-4
Humanities		3 Technical Electives	3
		CALS International Studies	3
	<b>15</b>		<b>17-18</b>

#### Fourth Year

Fall	Credits	Spring	Credits
BSE 380		3 BSE 460	3
BSE 461		3 BSE 464	3
BSE 509		3 BSE Breadth Requirement	3
Technical Electives		2-3 Elective Courses	9
Humanities		3	
	<b>14-15</b>		<b>18</b>

#### Total Credits 125-128

Students must complete at least 125 total credits to be eligible for graduation.

1

MATH course dependent on placement score and transfer credit evaluation.

2

If CHEM 103 & CHEM 104 are taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of the first year and move MICROBIO 101 & MICROBIO 102 to the first semester of the second year.

#### Sample Biological Systems Engineering Four-Year Plan—Food and Bioprocess Engineering Specialization—Food Engineering Track

#### First Year

Fall	Credits	Spring	Credits
MATH 221 <sup>1</sup>		5 MICROBIO 101	3
CHEM 109 <sup>2</sup>		5 BSE 170 or INTEREGR 170	2-3
LSC 100 (or other COMM A)		3 BSE 310	3
Humanities		3 MATH 222	4
		Ethnic Studies	3
	<b>16</b>		<b>15-16</b>

#### Second Year

Fall	Credits	Spring	Credits
BSE 249 or CBE 250		3 BSE 308	1
BSE 270		3 BSE 349	3
MATH 234		4 MATH 320	3
CHEM 341		3 PHYSICS 202	5
E M A 201		3 CALS International Studies	3
	<b>16</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
FOOD SCI 301		3 BSE 364	3
FOOD SCI/ MICROBIO 325		3 BSE 365	3
BSE 380		3 BSE 508	2
M E 361 or CBE 310		3 M E 363 or CBE 320	3-4
STAT 324		3 Technical Electives	3
		<b>15</b>	<b>14-15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
FOOD SCI 532		4 BSE 464	3
BSE 461		3 Humanities	3
BSE 509		3 BSE Breadth Requirement	3
INTEREGR 397 (or other COMM B)		3 Technical Elective	3
Technical Electives		3-4 Elective Courses	6
		<b>16-17</b>	<b>18</b>

**Total Credits 125-128**

Students must complete at least 125 total credits to be eligible for graduation.

**1**

MATH course dependent on placement score and transfer credit evaluation.

**2**

If CHEM 103 & CHEM 104 are taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of the first year, and move BSE 310 to the second year.

## BIOLOGICAL SYSTEMS ENGINEERING: MACHINERY SYSTEMS ENGINEERING

Machinery systems engineering is what many students initially perceive biological systems engineering to be. These engineers are trained to design machines for production agriculture and construction. Concepts covered in this field include power transmission, traction, hydraulic power, and crop handling, such as planting and harvesting.

Over the past 50 years, machines have improved production efficiency in all aspects of life. Machinery systems engineers have played a key role in moving society from the highly manual culture of the early 20th century to the highly technical culture of the late 20th century. Even with these advances, the job of the machinery systems engineer is not complete. Concern for our natural environment and worker safety, and the constant desire to reduce costs and energy consumption while improving production efficiency, will continue to challenge machinery systems engineers.

## REQUIREMENTS

Code	Title	Credits
<b>Major Requirements</b>		
	Common Requirements	53
	Specialization & Technical Electives	43
	Capstone	5
<b>Total Credits</b>		<b>101</b>

## COMMON REQUIREMENTS

See Major Requirements (p. 126).

## MACHINERY SYSTEMS ENGINEERING SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
BSE 405	Intelligence and Automation in Agriculture	3
BSE/M E 475	Engineering Principles of Agricultural Machinery	3
BSE/M E 476	Engineering Principles of Off-Road Vehicles	3
E M A 202 or M E 240	Dynamics Dynamics	3
M E 306 or E M A 303	Mechanics of Materials Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
M E 342	Design of Machine Elements	3
M E 310 or M E 311	Manufacturing: Polymer Processing and Engineering Manufacturing: Metals and Automation	3
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
AGRONOMY 100 or DY SCI/ AN SCI 101 or SOIL SCI 301	Principles and Practices in Crop Production Introduction to Animal Sciences General Soil Science	4
Complete one of the following BSE breadth courses:		2-3
BSE 301	Land Information Management	
BSE 364	Engineering Properties of Food and Biological Materials	
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE 464	Heat and Mass Transfer in Biological Systems	

BSE 472	Sediment and Bio-Nutrient Engineering and Management
BSE 473	Water Management Systems
BSE 571	Small Watershed Engineering

**Total Credits** **34-35**

## TECHNICAL ELECTIVES

See Major Requirements (p. 126).

## CAPSTONE

See Major Requirements (p. 126).

## FOUR-YEAR PLAN

### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—MACHINERY SYSTEMS ENGINEERING NAMED OPTION

#### First Year

Fall	Credits	Spring	Credits
MATH 221 <sup>1</sup>		5 MATH 222	4
CHEM 109 <sup>2</sup>		5 BSE 170 or INTEREGR 170	2-3
LSC 100 (or other COMM A)		3 BSE 310	3
Humanities		3 Elective	3
		Ethnic Studies	3
<b>16</b>		<b>15-16</b>	

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 BSE 308	1
BSE 249		3 BSE 349	3
E M A 201		3 M E 361	3
Biological Science Course		3 STAT 324	3
Elective		3 PHYSICS 202	5
<b>16</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
BSE 270		3 BSE 365	3
BSE/M E 475		3 BSE/M E 476	3
MATH 320		3 BSE 508	2
M E 240		3 M E 310 or 311	3
M E 306		3 M E 363	3
M E/E M A 307		1 CALS International Studies	3
<b>16</b>		<b>17</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
BSE 380		3 BSE 405	3
BSE 509		3 INTEREGR 397	3
M E 342		3 Technical Electives	6

AGRONOMY 100, DY SCI 101, or SOIL SCI 301	3-4 Humanities	3
BSE Breadth Requirement		3

**15-16** **15**

#### Total Credits 125-127

Students must complete at least 125 total credits to be eligible for graduation.

1

MATH course dependent on placement score and transfer credit evaluation.

2

If CHEM 103 & CHEM 104 are taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of the first year.

## BIOLOGICAL SYSTEMS ENGINEERING: NATURAL RESOURCES AND ENVIRONMENTAL ENGINEERING

Natural resources and environmental engineers work with all kinds of natural resources, like water, soil, plants, and air. For example, they could be responsible for the design of livestock or wildlife watering stations in a natural forest or the design of a recycling waste management system on a dairy farm. Graduates find challenging and rewarding work with engineering and environmental consultants, with government agencies like the Forest Service, and with companies such as Valmont Irrigation and Creative Habitat.

Conserving soil and water resources is critical to our future. Expanding populations and increasing needs for food, goods, and services are placing an ever growing demand upon our precious soil and water resources. Natural resources and environmental engineers are finding ways to manage and conserve our resources today so that we can meet the demands of the future.

## REQUIREMENTS

Code	Title	Credits
<b>Major Requirements</b>		
	Common Requirements	53
	Specialization & Technical Electives	43
	Capstone	5
<b>Total Credits</b>		<b>101</b>

## COMMON REQUIREMENTS

See Major Requirements (p. 126).

## NATURAL RESOURCES AND ENVIRONMENT SPECIALIZATION

This is a named option that will appear on the student's transcript upon completion.

Code	Title	Credits
BSE/CIV ENGR/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	2
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3
BSE 473	Water Management Systems	3
BSE 571	Small Watershed Engineering	3
M E 361	Thermodynamics	3
CIV ENGR 310 or M E 363	Fluid Mechanics Fluid Dynamics	3
BSE 301	Land Information Management	3
E M A 303 or M E 306	Mechanics of Materials Mechanics of Materials	3
ENVIR ST/GEOG/ SOIL SCI 230 or SOIL SCI 301	Soil: Ecosystem and Resource General Soil Science	3
Complete one of the following BSE breadth courses:		3
BSE 364	Engineering Properties of Food and Biological Materials	
BSE/ ENVIR ST 367	Renewable Energy Systems	
BSE 405	Intelligence and Automation in Agriculture	
BSE 460	Biorefining: Energy and Products from Renewable Resources	
BSE 461	Food and Bioprocessing Operations	
BSE 464	Heat and Mass Transfer in Biological Systems	
BSE/M E 475	Engineering Principles of Agricultural Machinery	
BSE/M E 476	Engineering Principles of Off-Road Vehicles	
<b>Total Credits</b>		<b>29</b>

## TECHNICAL ELECTIVES

See Major Requirements (p. 126).

## CAPSTONE

See Major Requirements (p. 126).

## FOUR-YEAR PLAN

### SAMPLE BIOLOGICAL SYSTEMS ENGINEERING FOUR-YEAR PLAN—NATURAL RESOURCES AND ENVIRONMENT SPECIALIZATION

#### First Year

Fall	Credits	Spring	Credits
MATH 221 <sup>1</sup>		5 MATH 222	4
CHEM 109 <sup>2</sup>		5 SOIL SCI/ENVIR ST/ GEOG 230 <sup>3</sup>	3
LSC 100 (or other COMM A)		3 BSE 170 or INTEREGR 170	2-3
Humanities		3 Biological Sciences Course	3
		Ethnic Studies	3
		<b>16</b>	<b>15-16</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 STAT 324	3
E M A 201		3 PHYSICS 202	5
BSE 249		3 BSE 308	1
BSE 270		3 BSE 349	3
BSE 301		3 BSE 472	3
		<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
BSE/CIV ENGR/ SOIL SCI 372		2 BSE 310	3
BSE 380		3 BSE 365	3
BSE 473		3 BSE 508	2
MATH 320		3 BSE 571	3
CIV ENGR 310		3 E M A 303	3
Technical Elective		3 INTEREGR 397 (or other COMM B)	3
		<b>17</b>	<b>17</b>

#### Fourth Year

Fall	Credits	Spring	Credits
BSE 509		3 Technical Electives	6
M E 361		3 CALS International Studies	3
BSE Breadth Requirement		3 Elective Courses	6
Technical Elective		3	
Humanities		3	
		<b>15</b>	<b>15</b>

**Total Credits 126-127**

Students must complete at least 125 total credits to be eligible for graduation.

1

MATH course dependent on placement score and transfer credit evaluation.

2

If CHEM 103 & CHEM 104 are taken in place of CHEM 109, it is suggested to take CHEM 103 in the fall semester and CHEM 104 in the spring semester of the first year and move Biological Science to the fall semester of the second year.

3

SOIL SCI 301 is offered Fall semesters and is a 4-credit alternative to SOIL SCI/ENVIR ST/GEOG 230.

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY

Community and environmental sociology explores the communities in which people live and the relationships between people and their natural environments. Using an integrative approach, the major provides students a broad view of the societal factors involved in issues of environment, food systems, health, and community development, as well as strategies for promoting a more just and sustainable world.

Through core courses, students receive foundational knowledge in sociology and select from a wide range of electives covering environmental stewardship, resource conflicts, public health, social change, social justice, agroecology, rural development, labor, science and technology, colonialism, and globalization.

Graduates go on to a wide variety of careers in environmental conservation, community and international development, food systems, law, public policy, sociology, and public health – in the private, public, and non-profit sectors. A Community and Environmental Sociology major also provides excellent preparation for graduate school. Alumni hold positions as directors, managers, administrators, policy makers, data analysts, planners, consultants, researchers, teachers, health care workers, and civil servants.

### Learn through hands-on, real-world experience

Students can apply their course learning to real life through internships, field courses, and research projects. During their final year, majors complete a senior capstone course where they work with local community groups to address specific challenges or explore social and environmental problems through case studies.

### Build community and networks

Students get to know faculty and instructors through departmental courses and social activities, and they can build their networks by participating in student organizations, internships, and research experiences.

### Customize a path of study

In addition to a set of core courses, students choose from a wide array of electives to explore their areas of interest within the major. Many choose to add a certificate or double major to their degree. Common certificate options include global health, food systems, organic agriculture, science and technology policy, and environmental studies. Common second majors

include environmental sciences, nutritional sciences, agronomy, biology, and wildlife ecology.

### Make a strong start

An introductory course provides an overview of topics such as community organizing, local food systems, energy transitions, environmental justice, resource dependence, and sustainable development.

### Gain global perspective

Majors learn about different cultures, communities, and environments through the classes they take, and many choose to study abroad to further expand their perspectives. Majors can choose semester-long programs or summer opportunities at top universities in Africa, Asia, Europe, and Latin America, or shorter faculty-led study abroad experiences. Students can explore studying abroad as a Community and Environmental Sociology major by utilizing the Community and Environmental Sociology (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/community-and-environmental-sociology/>) Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## DEGREES/MAJORS/CERTIFICATES

- Community and Environmental Sociology, B.S. (p. 136)
- Food Systems, Certificate (p. 141)

## PEOPLE

### PROFESSORS

Samer Alatout  
Michael Bell  
Katherine Curtis  
Nan Enstad (chair)  
Noah Feinstein  
Josh Garoon  
Michaela Hoffelmeyer  
Malia Jones  
Sarah Rios  
Randy Stoecker  
Monica White

### ADVISORS

Megan Banaszak

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY, B.S.

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## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
	Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.	
	Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.	

First Year Seminar (p. 46)	1
International Studies (p. 47)	3
Physical Science Fundamentals	4-5
CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Core</b>		
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	4
C&E SOC/SOC 475	Classical Sociological Theory	3
C&E SOC/SOC 357	Methods of Sociological Inquiry	3-4
C&E SOC/SOC 360	Statistics for Sociologists I <sup>1</sup>	4
<b>Electives within the Major <sup>2</sup></b>		<b>15</b>
Select 6-9 credits from the Community course set <sup>3</sup>		
Select 6-9 credits from the Environment course set <sup>3</sup>		
<b>Capstone</b>		
C&E SOC 500	Capstone Experience	3
<b>Total Credits</b>		<b>32-33</b>

**1**

We strongly encourage our majors to take C&E SOC/SOC 360 Statistics for Sociologists I, if they have not already taken a statistics course at time of major declaration. Acceptable statistics courses other than C&E SOC/SOC 360 Statistics for Sociologists I are: STAT 301 Introduction to Statistical Methods, STAT 371 Introductory Applied Statistics for the Life Sciences, ECON 310 Statistics: Measurement in Economics, PSYCH 210 Basic Statistics for Psychology, GEOG 360 Quantitative Methods in Geographical Analysis, and MATH/STAT 310 Introduction to Probability and Mathematical Statistics II. Please note that statistics courses taken outside the major do not count toward the credit requirement in the major.

**2**

Must complete a total of 15 credits of Community and Environment electives. No more than 6 credits may be 100- or 200-level courses. At least 6 credits must be taken in each course set.

**3**

Consult advisor to request permission to use C&E SOC 299 Independent Study, C&E SOC 399 Coordinative Internship/Cooperative Education, or C&E SOC 699 Special Problems toward the Community or Environmental course sets. No more than 4 such credits may be counted toward the major.

## ELECTIVE COURSES WITHIN THE MAJOR COMMUNITY COURSE SET

Code	Title	Credits
C&E SOC/SOC 210	Survey of Sociology	3-4
C&E SOC/SOC 211	The Sociological Enterprise	3
C&E SOC 215		3
C&E SOC/SOC 245	Technology and Society	3
C&E SOC/ AFROAMER/ ANTHRO/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
C&E SOC/SOC 341	Labor in Global Food Systems	3
C&E SOC/SOC 365	Data Management for Social Science Research	3-4
C&E SOC 375	Special Topics	1-4
C&E SOC 380		3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/SOC 532	Health Care Issues for Individuals, Families and Society	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/ AGRONOMY/ MED HIST/ PHILOS 565	The Ethics of Modern Biotechnology	3
C&E SOC/SOC 573	Community Organization and Change	3
C&E SOC/ AMER IND/SOC 578	Poverty and Place	3
C&E SOC/SOC/ URB R PL 617	Community Development	3
C&E SOC 623		3
C&E SOC/SOC 630	Sociology of Developing Societies/ Third World	3
C&E SOC/SOC/ URB R PL 645	Modern American Communities	3
C&E SOC/SOC 652	Sociology of Economic Institutions	3
C&E SOC 655		3
C&E SOC/SOC 676	Applied Demography: Planning and Policy	3
C&E SOC/SOC 693	Practicum in Analysis and Research	3

## ENVIRONMENT COURSE SET

Code	Title	Credits
C&E SOC/ AGROECOL/ AGRONOMY/ ENTOM/ ENVIR ST 103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/A A E/ SOC 340	Issues in Food Systems	3-4
C&E SOC 375	Special Topics	1-4
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
C&E SOC/ AGRONOMY/ MED HIST/ PHILOS 565	The Ethics of Modern Biotechnology	3
C&E SOC/SOC 650	Sociology of Agriculture	3
C&E SOC/SOC 693	Practicum in Analysis and Research	3

## CREDIT REQUIREMENT

Must complete a total of 30 credits of C&E SOC courses. Students may count up to 4 credits of Independent Study (C&E SOC 299 Independent Study, C&E SOC 699 Special Problems), Internship (C&E SOC 399 Coordinative Internship/Cooperative Education), or Thesis (C&E SOC 681 Senior Honors Thesis/C&E SOC 682 Senior Honors Thesis/C&E SOC 691 Senior Thesis/C&E SOC 692 Senior Thesis) here, with permission of their advisor.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand how social science arguments are constructed and evaluated.
2. Develop ability to assess data quality and understand whether particular data is appropriate to answer specific questions.
3. Learn general theories on basic social processes, especially those related to the relationships between society and the environment and the social organization of communities.
4. Learn communication skills in the social sciences.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE COMMUNITY AND ENVIRONMENTAL SOCIOLOGY FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
COMM A or COMM B Course	2-3	COMM A or COMM B Course	2-3
C&E SOC/SOC 140	4	CHEM 103, 108, or 109	4-5
First Year Seminar	1	C&E SOC Elective <sup>2</sup>	3
Electives <sup>1</sup>	8	Electives (to reach ~15 credits)	4-6
<b>15-16</b>		<b>13-17</b>	

#### Total Credits 28-33

#### Sophomore

Fall	Credits	Spring	Credits
C&E SOC/SOC 357	3	C&E SOC/SOC 360	4
C&E SOC Elective <sup>2</sup>	3	C&E SOC Elective <sup>2</sup>	3
Ethnic Studies	3	Biological Science Course	2
Electives	6	Humanities Elective	3
		Additional Electives	3
<b>15</b>		<b>15</b>	

#### Total Credits 30

#### Junior

Fall	Credits	Spring	Credits
C&E SOC/SOC 475	3	C&E SOC Elective <sup>2</sup>	3
C&E SOC Elective <sup>2</sup>	3	International Studies	3
Biological Science	3	Additional Science Course	3

Additional Electives	6 Electives	6
	<b>15</b>	<b>15</b>

**Total Credits 30****Senior**

Fall	Credits	Spring	Credits
C&E SOC 500 <sup>3</sup>		3 Humanities	3
Electives		12 Electives	12
	<b>15</b>		<b>15</b>

**Total Credits 30****1**

Electives should be chosen in order to satisfy university and CALS requirements. See Requirements tab for details.

**2**

C&E SOC electives include the Community course set and the Environmental course set. See Requirements tab for details.

**3**

Students may take the capstone course either semester of their senior year. The fall semester and spring semester courses may have different content.

The above plan assumes that a student enters with standard high school preparation (algebra, geometry, third-year math, two years' foreign language).

## ADVISING AND CAREERS

### Advising

Students have an academic advisor who helps them with course planning and mapping out their degree plans. They also have a faculty mentor, with whom they can discuss internship opportunities and career goals.

### Career opportunities

Graduates go on to a wide variety of careers that help support environmental sustainability, sustainable agricultural systems, community development, and public health – in the private, public, and non-profit sectors. The major also provides excellent preparation for graduate school. Alumni hold professional positions as directors, managers, administrators, policy makers, data analysts, planners, consultants, researchers, teachers, health care workers, and civil servants.

## PEOPLE

### PROFESSORS

Samer Alatout  
 Michael Bell  
 Katherine Curtis  
 Nan Enstad (chair)  
 Noah Feinstein  
 Josh Garoon  
 Michaela Hoffelmeyer  
 Malia Jones  
 Sarah Rios  
 Randy Stoecker

Monica White

### ADVISORS

Megan Banaszak

## WISCONSIN EXPERIENCE

### Internships

Many students complete internships, including with campus clubs, community groups, and national and international non-profit organizations. Learn more about internship opportunities. (<https://dces.wisc.edu/programs/opportunities/possible-internships/>)

### Research experience

Community and Environmental Sociology majors can gain research experience by participating in a faculty-led research project or conducting their own project supervised by a faculty member. Students can choose to write thesis papers, and some become authors or co-authors on published research papers.

### Global engagement

Majors are encouraged to participate in study abroad experiences across all continents. Options include a sustainable development course in Uganda, a food systems and health course in South Africa, and many other options.

### Community engagement and volunteering

There are many opportunities to engage in volunteer activities. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

### Student organizations

There are numerous campus student organizations of interest to majors, including F.H. King Students for Sustainable Agriculture, Campus Food Shed, and REthink Wisconsin. A full list of UW–Madison student organizations is available on the Wisconsin Involvement Network website (<https://win.wisc.edu/organizations/>).

## RESOURCES AND SCHOLARSHIPS

### Scholarships

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

The Department of Community and Environmental Sociology awards an average of \$15,000 in scholarships each year to undergraduate students in the department. This includes numerous Crowe Scholarships, which are awarded to students to support research, study abroad, conference fees, and professional society memberships. Crowe Scholarships are also awarded for financial need and academic achievement. Learn more about Community and Environmental Sociology scholarships. (<https://dces.wisc.edu/programs/scholarships/>)

## FOOD SYSTEMS, CERTIFICATE

The certificate in food systems is an option open to all undergraduate students. It assembles an interdisciplinary curriculum, integrating different paradigms across all aspects of food production, distribution, and consumption, along with the context and values inherent to the systems.

For students in food or agriculture-related majors, the certificate in food systems will provide a broader context to their disciplinary studies. For students in fields that include food as a possible orientation of their studies, it will provide exposure to the full range of food systems, potentially inspiring an orientation to food as a focus of their studies. For students of any discipline, the certificate will help students be more informed consumers and citizens, hopefully leading to better choices about what they eat through knowledge of food and the social, economic, and environmental outcomes of different patterns of production, processing, distribution, and consumption.

## HOW TO GET IN

Undergraduate students of any major are welcome to pursue the certificate in food systems.

Students are eligible to declare the certificate once they complete one of the three core courses (AGROECOL/AGRONOMY/C&E SOC/ENTOM/ENVIR ST 103 Agroecology: An Introduction to the Ecology of Food and Agriculture, C&E SOC/A A E/SOC 340 Issues in Food Systems, and DY SCI/AGRONOMY 471 Food Production Systems and Sustainability) with a grade of B or better. While there are different pathways to complete the certificate, students who declare and plan their coursework earlier in their careers will be in a better position to complete the required coursework.

Students who meet the eligibility criteria should fill out this short questionnaire ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_0JPABAckGujKA2p/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_0JPABAckGujKA2p/)) and then contact Megan Banaszak ([mbanaszak@wisc.edu](mailto:mbanaszak@wisc.edu)) to declare the certificate.

## REQUIREMENTS

The certificate in food systems requires that students take two highly interdisciplinary core courses (6 total credits), and at least one course in each of three thematic elective categories (for 9 total credits across electives), plus a one credit culminating activity such as an internship, independent study, or appropriate capstone. The course list below provides a complete list of courses that satisfy each requirement.

### MINIMUM REQUIREMENTS:

- 2.0 GPA in certificate courses
- At least 50% of certificate courses taken in-residence (i.e. at UW-Madison or through a UW-Madison sponsored study abroad program)
- Minimum of 16 credits total

Code	Title	Credits
<b>Core Courses</b>		
Select two of the following:		6-7

AGROECOL/  
AGRONOMY/  
C&E SOC/  
ENTOM/  
ENVIR ST 103

Agroecology: An Introduction to the Ecology of Food and Agriculture

C&E SOC/A A E/  
SOC 340

Issues in Food Systems

DY SCI/  
AGRONOMY 471

Food Production Systems and Sustainability

### Elective Courses

Select at least one course from each list: Provisioning, Context, and Values for a total of 9 credits

#### Provisioning (production, processing, distribution)

AGRONOMY 100

Principles and Practices in Crop Production

AGRONOMY 300

Cropping Systems

AGRONOMY 377

Global Food Production and Health

AN SCI/  
DY SCI 101

Introduction to Animal Sciences

AN SCI/  
DY SCI 370

Livestock Production and Health in Agricultural Development

BOTANY/  
PL PATH 123

Plants, Parasites, and People

FOOD SCI 301

Introduction to the Science and Technology of Food

HORT 120

Survey of Horticulture

HORT/  
AGRONOMY 376

Tropical Horticultural Systems

HORT 370

World Vegetable Crops

HORT 378

Tropical Horticultural Systems International Field Study

#### Context (policy, economics, law, society)

A A E 215

Introduction to Agricultural and Applied Economics

AGRONOMY/  
HORT 360

Genetically Modified Crops: Science, Regulation & Controversy

AN SCI/  
FOOD SCI 321

Food Laws and Regulations

AN SCI/DY SCI/  
FOOD SCI/  
SOIL SCI 472

Animal Agriculture and Global Sustainable Development

AN SCI/DY SCI/  
FOOD SCI/  
SOIL SCI 473

International Field Study in Animal Agriculture and Sustainable Development

C&E SOC/  
F&W ECOL/  
SOC 248

Environment, Natural Resources, and Society

ENVIR ST/  
F&W ECOL 515

Natural Resources Policy

GEOG/  
ENVIR ST 309

People, Land and Food: Comparative Study of Agriculture Systems

GEOG/  
ENVIR ST 534

Environmental Governance: Markets, States and Nature

MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology
<i>Values (nutrition, equity, environment)</i>	
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
C&E SOC/ SOC 341	Labor in Global Food Systems
C&E SOC/ SOC 222	Food, Culture, and Society
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
FOLKLORE/ AMER IND/ ANTHRO/ GEN&WS 437	American Indian Women
HORT 350	Plants and Human Wellbeing
NUTR SCI 132	Nutrition Today
NUTR SCI 332	Human Nutritional Needs
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
<b>Food Systems Culmination Activity<sup>1</sup></b>	
Select one of the following: 1	
<i>Independent Study</i>	
C&E SOC 299	Independent Study
C&E SOC 699	Special Problems
<i>Food Systems Internship</i>	
C&E SOC 399	Coordinative Internship/ Cooperative Education

**Total Credits** 16-17

1

Culminating activities must be formally pre-approved and incorporated into an independent study (299) or internship (399) within the Department of Community and Environmental Sociology. Click [HERE](https://uwmadison.co1.qualtrics.com/jfe/form/SV_eaks3WTTYEkj7Xn/) ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_eaks3WTTYEkj7Xn/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_eaks3WTTYEkj7Xn/)) for more information and a form to request approval of a culminating activity.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Evaluate critically the key elements of a food system.
2. Evaluate critically how political, social, economic, and environmental forces interact to shape food systems.
3. Evaluate critically the biophysical processes inherent in various agricultural production systems.
4. Evaluate critically how individuals from different backgrounds interact with local and global food systems as humans, consumers, producers, and citizens.
5. Evaluate critically the social, economic, and environmental outcomes of different food systems.

## ADVISING AND CAREERS

### ADVISING

Questions about the certificate may be directed to the advisor, Megan Banaszak ([mbanaszak@wisc.edu](mailto:mbanaszak@wisc.edu)), or to the Faculty Chair, Michael Bell ([michaelbell@wisc.edu](mailto:michaelbell@wisc.edu)).

### CAREERS

For students in food or agriculture related majors, the certificate in food systems will provide a broader context to their disciplinary studies. As they seek careers, they will be able to provide evidence of enhancing their disciplinary learning and skills with a broader framework of food system concepts, including ideas for enhancing food system sustainability. For students in fields that include food as a possible orientation of their studies, it will provide exposure to the full range of food systems, potentially inspiring an orientation to food as a focus of their studies. For students in any discipline, the certificate in food systems will help them be more informed consumers and better informed citizens, hopefully leading to better choices about what they eat through knowledge of food and the social, economic, and environmental consequences of production, processing, distribution, and consumption.

## PEOPLE

Faculty across campus teach courses in the certificate. Please use the Guide to seek out information on individual courses.

For general certificate inquiries, questions about the culminating experience, direct advising on curricular requirements, or to declare the certificate, contact Megan Banaszak ([mbanaszak@wisc.edu](mailto:mbanaszak@wisc.edu)).

## WISCONSIN EXPERIENCE

- Integrated, interdisciplinary course work
- Professional development opportunities, including options to intern off campus
- Hands-on culminating experience

## ENTOMOLOGY

Insects have dominated the terrestrial planet for more than 350 million years. While entomologists have recognized and named more than one million different species of insects, experts vary widely on the true number

of insects species—with estimates ranging from 3 to 30 million unique species. At any given moment, 200+ million insects live for every human on Earth; over 70 percent of all animal species are insects. They have achieved something that has eluded humans—sustainable development. Insects are the primary consumers of plants, yet they are also the dominant pollinators, thus ensuring plant reproduction. They play a critical role in disease transmission yet the service they provide to ecological maintenance is unparalleled.

Entomologists conduct insect-based research in numerous areas ranging from general biology, natural history, systematics, ecology and behavior, to molecular biology, physiology and development, to medical and agricultural entomology. Emerging areas include invasive species, biodiversity, pollination ecology, forensics, global health, and genomics. Entomology is a very specific discipline, yet at the same time, an immensely broad and diverse field of study touching a wide array of other subjects. As such, entomological training provides many choices and opportunities for those interested in the diversity of nature. While some entomologists work in the field, others work in the laboratory or classroom.

Students majoring in entomology study in a variety of fundamental and applied fields. Graduates find employment in college and university teaching, research and extension work, state and federal government service, industry, and research institutes.

Students can complete an undergraduate major in entomology or global health in the Entomology department.

Students interested in graduate work should consult the Graduate Guide (<http://guide.wisc.edu/graduate/>).

## DEGREES/MAJORS/CERTIFICATES

- Entomology, B.S. (p. 143)
- Global Health, B.S. (p. 148)
- Global Health, Certificate (p. 155)

## PEOPLE

### FACULTY

Crall, James  
 Gratton, Claudio  
 Groves, Russell (chair)  
 Guedot, Christelle  
 Oberhauser, Karen  
 Paskewitz, Susan  
 Schoville, Sean  
 Steffan, Shawn  
 Trowbridge, Amy  
 Young, Daniel

### ADJUNCT & AFFILIATED FACULTY

Bartholomay, Lyric (Pathobiological Sciences)  
 Currie, Cameron (Bacteriology)  
 Coon, Kerri (Bacteriology)

Zhu, Jun (Statistics)  
 Ives, Anthony (Integrated Biology)  
 Mattson, William (adjunct)  
 Peckarsky, Bobbi (adjunct)

## INSTRUCTIONAL STAFF

Brabant, Craig, Curator Wisconsin Insect Research Collection  
 Liesch, Patrick (PJ), Assistant Faculty Associate Insect Diagnostic Lab

## ENTOMOLOGY, B.S.

Entomology is the study of insects, who have dominated the terrestrial planet for more than 350 million years. While entomologists have recognized and named more than one million different species of insects, experts vary widely on the true number of insects species—with estimates ranging from 3 to 30 million unique species. At any given moment, 200+ million insects live for every human on Earth; over 70 percent of all animal species are insects. They have achieved something that has eluded humans—sustainable development. Insects are the primary consumers of plants, yet they are also the dominant pollinators, thus ensuring plant reproduction. They play a critical role in disease transmission yet the service they provide to ecological maintenance is unparalleled.

Entomologists conduct insect-based research in numerous areas ranging from general biology, natural history, systematics, ecology and behavior, to molecular biology, physiology and development, to medical and agricultural entomology. Emerging areas include invasive species, biodiversity, pollination ecology, forensics, global health, and genomics. Entomology is a very specific discipline, yet at the same time, an immensely broad and diverse field of study touching a wide array of other subjects. As such, entomological training provides many choices and opportunities for those interested in the diversity of nature. While some entomologists work in the field, others work in the laboratory, classroom, or museum settings.

Students majoring in entomology study in a variety of fundamental and applied fields. Graduates find employment in college and university teaching, community education, research and extension work, state and federal government service, industry, and research institutes.

### Learn through hands-on, real world experiences

Entomology students learn in many field and lab courses, including classes that focus on taxonomy, physiology, parasitology, insects and human culture, issues in global health, and medical entomology. Students can complete their capstone requirement as part of a summer field course. There are also numerous internships and research opportunities available both on and off-campus.

### Build community and networks

The UW-Madison Entomology Department is committed to the UW System's (<http://www.wisconsin.edu/campuses/>) goal to provide Wisconsin's citizens with opportunities to benefit from and contribute to the state's growing "knowledge economy" through the land-grant university three-fold mission of teaching, research and public service.

In the spirit of The Wisconsin Idea (<http://www.wisconsinidea.wisc.edu/>), Entomology Department faculty and students fulfill the public service mission through entomology outreach engagement. Entomology Department interactions with the surrounding and statewide community encompass a wide range of insect and human affairs from human medical issues such as West Nile Virus and Lyme disease, to forest products and natural resources entomology, integrated pest management programs for agriculture, turf and ornamental and household settings, K-12 primary and secondary school education, and more.

### Customize a path of study

Students are often able to customize their program of study by exploring a double major and/or undergraduate certificates based on their unique areas of interest. Both faculty and staff advisors are available to help students choose electives based on their educational and professional goals.

### Make a strong start

Freshman who are interested in Entomology are encouraged to participate in a First-Year Interest Group (<https://figs.wisc.edu/what/>) (FIG) program. During Fall semesters, the department has historically offered a fascinating FIG titled "Global Biodiversity and the 6th Mass Extinction" where students explore what the immense richness of biodiversity means not only to the human species but to the very health of the planet. This program includes field trips, a museum experience, and other hands-on and experiential learning opportunities to bring concepts and classmates together for an eye-opening journey.

### Gain global perspective

The Entomology major is a great choice for students who wish to participate in a study abroad experience. Students can choose from a multitude of destinations world-wide, and can travel abroad during Summer, Spring, or Fall terms. Students can explore studying abroad as an Entomology major by utilizing the Entomology Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I	
	or CHEM 108 Chemistry in Our World	
	or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics</b>		
Select one of the following (or placement exam):		5-6
	MATH 112 Algebra	
	& MATH 113 and Trigonometry	



MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**Chemistry**

Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

**Biology**

Option 1:

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
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Option 2:

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
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Option 3:

BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
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Select 12 additional credits from any biological or physical science course (at least 8 credits must be 300-level or 200-level courses with the intermediate-level designation).<sup>2</sup>

**Physics**

Select one of the following:		3-5
PHYSICS 103	General Physics	
PHYSICS 107	The Ideas of Modern Physics	
PHYSICS 109	Physics in the Arts	
PHYSICS 115	Energy and Climate	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	

**Entomology Core**

ENTOM/ZOOLOGY 302	Introduction to Entomology	4
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Select 11 credits as follows: 11

Must select at least 3 credits from at least two subsets (organismal, suborganismal, or applied)

May select up to 3 credits from subset called "other"

**Capstone**

ENTOM 468	Studies in Field Entomology <sup>3</sup>	3
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**Total Credits 36-43**

1

If MATH 171 is taken, student must take MATH 217.

2

Suggested courses/subjects include GENETICS 466, CHEM 341, CHEM 342 CHEM 343, CHEM 344, CHEM 345, PHYSICS 104, PHYSICS 202, PHYSICS 208, ENTOM not used elsewhere, BOTANY, ZOOLOGY, F&W ECOL, MICRO, PL PATH.

3

ENTOM 468, taken after the junior year, is the recommended capstone course (can double count in Core Courses). ENTOM 681 Senior Honors Thesis, ENTOM 682 Senior Honors Thesis, ENTOM 691 Senior Thesis, ENTOM 699 Special Problems can be substituted in special circumstances (and can double count up to 3 credits in Core Category); see advisor.

**SUBSET COURSES ORGANISMAL**

Code	Title	Credits
ENTOM 331	Taxonomy of Mature Insects	4
ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
ENTOM 450	Basic and Applied Insect Ecology <sup>1</sup>	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory (requires enrollment in ENTOM 450) <sup>1</sup>	1
ENTOM 468	Studies in Field Entomology	3
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3

The following three courses: 3

ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	
ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	
ENTOM/ AGRONOMY/ F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	
ENTOM 701	Advanced Taxonomy	3

1

ENTOM 450 Basic and Applied Insect Ecology and ENTOM 451 Basic and Applied Insect Ecology Laboratory can count toward either the organismal or applied categories, not both

**SUBORGANISMAL**

Code	Title	Credits
ENTOM 321	Physiology of Insects	3
ENTOM/BOTANY/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3

ENTOM/GENETICS/ Molecular Ecology 3  
ZOOLOGY 624

## APPLIED

Code	Title	Credits
ENTOM/M M & I/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology	3
ENTOM 450	Basic and Applied Insect Ecology <sup>1</sup>	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory <sup>1</sup>	1
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2

1

ENTOM 450 Basic and Applied Insect Ecology and ENTOM 451 Basic and Applied Insect Ecology Laboratory can count toward either the organismal or applied categories, not both

## OTHER

Code	Title	Credits
ENTOM 375	Special Topics	1-4
ENTOM 399	Coordinative Internship/ Cooperative Education	1-8
ENTOM 681	Senior Honors Thesis	2-4
ENTOM 682	Senior Honors Thesis	2-4
ENTOM 691	Senior Thesis	2
ENTOM 699	Special Problems	1-4

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

2. Knowledge of laboratory and/or field methodology.
3. Explain and apply scientific methods including designing and conducting experiments and testing hypotheses.
4. Recognize relationships between structure and function at all levels including molecular, cellular, organismal and ecological.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form.
6. Integrate math, physics, and technology to answer biological questions using the scientific method.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE ENTOMOLOGY FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
MATH 112, 113, 114, or 171	3-5	MATH 113, 211, 217, or 221	3-5
COMM A or Elective	3	Electives (to reach ~15 credits)	5-8
First Year Seminar	1		
Additional Elective Course <sup>1</sup>	3		
		<b>14-17</b>	<b>13-18</b>

#### Total Credits 27-35

#### Sophomore

Fall	Credits	Spring	Credits
MATH 211, 217, 221, or STAT 371	3-5	ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 (or ZOOLOGY 151)	5	Electives	10
Electives	4-6		
		<b>12-16</b>	<b>15</b>

#### Total Credits 27-31

#### Junior

Fall	Credits	Spring	Credits
ENTOM/ZOOLOGY 302	4	Biological or Physical Elective	3
PHYSICS 103, 107, 109, 115, 201, or 207	4-5	Breadth Course in Core	3
Electives (to reach ~ 15 credits)	4-8	Electives (to reach ~15 credits)	6-9
		<b>12-17</b>	<b>12-15</b>

#### Total Credits 24-32

## LEARNING OUTCOMES

1. Define and explain major concepts in the biological sciences focusing on insects.

**Junior****Summer****Credits**

ENTOM 468 (Capstone, even #'d summers)	3
--	---

**3****Total Credits 3****Senior****Fall****Credits****Spring****Credits**

Biological or Physical Elective Course	3	Biological or Physical Elective	6
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Breadth Course(s) in Core	3-6	Breadth Course in Core	3
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Electives (to reach ~15 credits)	6-9	Electives	6
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**12-18****15****Total Credits 27-33****1**

When choosing electives, students should first consider UW and CALS requirements (ethnic studies, humanities, social science, international studies, etc.)

For additional Biological or Physical Science courses students may want to choose from the following depending on interest

\* Health/graduate school: CHEM 343/CHEM 344/CHEM 345,

PHYSICS 104 or PHYSICS 207, GENETICS 466,

MICROBIO 303/MICROBIO 304, BIOCHEM 501

\* Ecology: F&W ECOL/ENVIR ST/ZOOLOGY 360, BOTANY/F&W ECOL/ZOOLOGY 460, F&W ECOL 550, ZOOLOGY/ANTHRO/BOTANY 410, BOTANY 400 or BOTANY 401.

\* Agriculture: PL PATH 300, AGRONOMY 300, SOIL SCI 301

Students may reduce the number of required courses via:

- Testing out of Comm-A
- Using ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology to satisfy Comm-B
- Testing out of Quantitative Reasoning, Part A
- Earning AP/IB credits
- Using ENTOM/ZOOLOGY 371 Medical Entomology for International Course

**ADVISING AND CAREERS****ADVISING**

Undergraduate students are assigned to the Entomology undergraduate faculty advisor Dr. Dan Young and academic staff advisor Allee Hochmuth, MS. However, since the vast majority of Entomology B.S. students conduct independent research during their undergraduate career, it is important to meet with other entomology faculty members (<https://entomology.wisc.edu/people/faculty/>) to learn about all of the research possibilities.

Undergraduates in Entomology are strongly urged to meet with their advisor before they enroll for the upcoming term. If you have questions about advising or declaring the major, please contact Allee Hochmuth by making an appointment in Starfish.

For more information about the Entomology B.S. or the department in general, please contact Dr. Dan Young ([dkyoung@wisc.edu](mailto:dkyoung@wisc.edu)).

**CAREER OPPORTUNITIES**

Entomologists, from all educational levels, are able to seek employment in a variety of areas. Graduates find employment in college and university teaching, community education, research and extension work, state and federal government service, industry, and research institutes. Some examples include:

- college and universities
- biotechnology companies
- state and federal agencies
- international agricultural research centers
- nurseries, greenhouses and garden centers
- non-governmental organizations
- golf courses, public parks and landscape maintenance companies
- agricultural companies
- a variety of private consulting firms

For more information on careers available to Entomology students, please visit our Internship & Job Resources (<https://entomology.wisc.edu/graduate-study/internships-and-job-resources/>) page. For more information on other academic, co-curricular, financial aid, and career opportunities and services available to Entomology B.S. students, please visit the CALS Career Services (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>) page. Students in the major are welcome to make an individual appointment with their advisor to discuss a number of career related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

**PEOPLE****FACULTY**

Crall, James  
 Gratton, Claudio  
 Groves, Russell (chair)  
 Guedot, Christelle  
 Oberhauser, Karen  
 Paskewitz, Susan  
 Schoville, Sean  
 Steffan, Shawn  
 Trowbridge, Amy  
 Young, Daniel

**ADJUNCT & AFFILIATED FACULTY**

Bartholomay, Lyric (Pathobiological Sciences)  
 Currie, Cameron (Bacteriology)  
 Coon, Kerri (Bacteriology)

Zhu, Jun (Statistics)  
 Ives, Anthony (Integrated Biology)  
 Mattson, William (adjunct)  
 Peckarsky, Bobbi (adjunct)

**INSTRUCTIONAL STAFF**

Brabant, Craig, Curator Wisconsin Insect Research Collection

Liesch, Patrick (PJ), Assistant Faculty Associate Insect Diagnostic Lab

## WISCONSIN EXPERIENCE

While entomology clearly is “big science,” our department prides itself on a “small campus” feel in which we get to know our undergraduate students during their time with us.

In the classroom, we strive to maintain labs at not more than 15–20 students to maximize individualized and participatory learning. Students are given additional opportunities for deep and engaged learning experiences through honors options that are generally available for most courses and field and/or lab experiences in many of the upper-level courses.

### Internships

Please visit our Internships & Job Resources (<https://entomology.wisc.edu/graduate-study/internships-and-job-resources/>) page for more information on the multitude of internship and employment opportunities available to Entomology students. Research and internship opportunities are also available in the UW Insect Research Collection (WIRC) (<http://labs.russell.wisc.edu/wirc/>), as well as possible participation in WIRC sponsored collecting expeditions in Wisconsin and around the United States.

### Research experience

Very nearly all our undergraduate students have opportunities to work alongside our faculty and graduate students in research labs and in the field. Our major accommodates 1–3 credits (of the 15 entomology credits required to major) in the area of directed/independent study and internships to promote extracurricular and outside the traditional classroom learning.

### Student organizations

Undergraduate students are also involved in service learning and teaching through our departmental “Insect Ambassadors (<https://insectambassadors.wiscweb.wisc.edu/>)” outreach program to K–12, various clubs, and organizations. We are committed (<https://insectambassadors.wiscweb.wisc.edu/>) to the UW System goal to provide Wisconsin’s citizens with opportunities to benefit from, and contribute to, the state’s growing “knowledge economy” through the land-grant university three-fold mission of teaching, research, and public service. We also have an active Undergraduate Entomology Society for majors—or any UW–Madison students interested in entomology.

### Global engagement

Entomology students are encouraged to participate in a study abroad experience. Students can find more information about study abroad on the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

### Community engagement and volunteering

In the spirit of The Wisconsin Idea (<http://www.wisconsinidea.wisc.edu/>), Entomology Department faculty and students fulfill the public service mission through entomology outreach engagement. Entomology Department interactions with the surrounding and statewide community encompass a wide range of insect and human affairs from human medical issues such as West Nile Virus and Lyme disease, to forest products and

natural resources entomology, integrated pest management programs for agriculture, turf and ornamental and household settings, K–12 primary and secondary school education, and more. Please visit our Outreach (<https://entomology.wisc.edu/outreach/>) page for more information.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

Department scholarships are available to Entomology students and fellowships are available to support research work with a professor. Please visit our Awards & Scholarships (<https://entomology.wisc.edu/undergraduate-study/awards-scholarships/>) page for additional details. Students across the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## GLOBAL HEALTH, B.S.

### OVERVIEW

Global health is about improving health for everyone, while considering the connections among people, animals, plants, and the planet. Students explore how human health intersects with economic development, healthcare access, food systems, environmental health, and climate change in order to address the root causes of disease around the world. The program helps students develop a broad, planetary-scale perspective that can be applied to community, state, national, and international health challenges.

Students in the global health major study human health and well-being with an emphasis on empathy, cultural awareness, and collaborative approaches. The major, which covers bioscience and public health, provides students with foundational knowledge in disease and epidemiology, food systems, environmental health, and public health and policy. Majors are encouraged to pursue their own areas of interest through coursework and by participating in field experiences, laboratory research, internships, and volunteer work.

The global health major prepares students for a wide variety of careers. Students can become healthcare professionals well-informed about the systems that impact patient health. They can become epidemiologists or research scientists in academia or with government agencies, or community health professionals working on policy, education, or communication for governmental agencies or non-governmental organizations anywhere in the world. The program supports students who intend to go directly into the workforce after graduation, as well as those who plan to further their education through graduate or professional programs.

### LEARN THROUGH HANDS-ON, REAL-WORLD EXPERIENCES

Students can apply their course learning to real life by participating in global health field experiences (<https://globalhealth.cals.wisc.edu/about-the-certificate/field-experiences/>), which provide opportunities to study and help mitigate real world health challenges. Additionally, students gain experience through laboratory courses and through independent study in research labs that focus on health-related issues such as infectious

diseases, environmental health, sustainable agriculture, and community engagement. Campus internship programs through the Wisconsin Area Health Education Centers (<https://ahec.wisc.edu/>), Center for Patient Partnerships (<https://patientpartnerships.wisc.edu/>), and International Division (<https://internships.international.wisc.edu/>) are also options for global health majors.

### BUILD COMMUNITY AND NETWORKS

Many advanced courses enroll 15-50 students allowing students to get to know faculty and instructors personally. Students also have opportunities to connect with other global health major and certificate students through classes, events, field experiences, and student organizations.

### CUSTOMIZE A PATH OF STUDY

In addition to a set of core courses, students are encouraged to take classes to explore and identify their particular areas of interest within the broader field of global health. Students also tailor their major and Wisconsin Experience through global health field programs, laboratory research, capstone courses, internships, and volunteer work.

### MAKE A STRONG START

A number of first-year seminar courses are available to help new students understand academic programs, access student services, and develop time management and study skills.

### GAIN GLOBAL PERSPECTIVE

Global health students learn to take a broad, planetary-scale perspective, and apply it to challenges at community, state, national, and international levels. This big-picture perspective is interwoven through nearly all aspects of the global health major, including classes, capstone experiences, lab opportunities, and internships. Global health field experiences, which range from one week to a full semester, expose students first-hand to complex global health challenges in diverse settings, and give them the opportunity to learn from community members and practitioners who are working to address these issues. Students can explore studying abroad as a Global Health major by utilizing the Global Health Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

### PRIMARY MAJOR IN GLOBAL HEALTH

To declare this as the primary major, students must be admitted to UW-Madison and the College of Agricultural and Life Sciences (CALS).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after beginning their undergraduate studies at UW-Madison (see Entering the College (p. 44)). For more information, contact the advisor listed on the Advising and Careers tab.

### ADDITIONAL MAJOR IN GLOBAL HEALTH

Current UW-Madison students in other schools and colleges interested in completing an additional ("double") major in Global Health should consult with a global health advisor. Advisor contact information is found on the Advising and Careers tab.

Students cannot earn both the Global Health certificate and the Global Health major. Additionally, students declared in the Global Health major cannot earn the Health and the Humanities certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
	Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.	
	Residency: Students must complete 30 degree credits in residence at UW-Madison after earning 86 credits toward their undergraduate degree.	
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	

or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
Biological Science		5
Additional Science (Biological, Physical, or Natural)		3
Science Breadth (Biological, Physical, Natural, or Social)		3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Major Requirements Overview</b>		
Fundamental Courses		29
Core Courses		15
Depth Courses		15
Capstone		3
<b>Total Credits</b>		<b>62</b>

## FUNDAMENTAL COURSES

Code	Title	Credits
<b>Fundamental Course Requirements</b>		
<i>Mathematics: complete one sequence (or satisfy through placement exam)</i>		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
<i>Statistics: complete one course</i>		3
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
<i>General Chemistry: complete one sequence</i>		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<i>Introductory Biology: complete one sequence</i>		10
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	

BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
<i>Global Health Introductory Social Sciences</i>		6-8
Group A: complete one course (see list below)		
Group B: complete one course (see list below)		
<b>Total Credits</b>		<b>29-37</b>

### Social Science Group A

Code	Title	Credits
AFROAMER 151	Introduction to Contemporary Afro-American Society	3
AMER IND 100	Introduction to American Indian Studies	3
ANTHRO 265	Introduction to Culture and Health	3
GEN&WS 102	Gender, Women, and Society in Global Perspective	3
GEN&WS 103	Gender, Women, Bodies, and Health	3
GEN&WS 104	Gender, Sexuality, and Global Health	3
SOC 134	Sociology of Race & Ethnicity in the United States	3-4
SOC 170	Population Problems	3-4

### Social Science Group B

Code	Title	Credits
A A E 215	Introduction to Agricultural and Applied Economics	4
A A E/ENVIR ST 244	The Environment and the Global Economy	4
AGROECOL/ AGRONOMY/ C&E SOC/ENTOM/ ENVIR ST 103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	4
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
GEOG 101	Introduction to Human Geography	4
GEOG/ ENVIR ST 139	Global Environmental Issues	3
INTL ST 101	Introduction to International Studies	3-4
LSC 212	Introduction to Scientific Communication	3
LSC 251	Science, Media and Society	3
MED HIST/ ANTHRO 231	Introduction to Social Medicine	3
PHILOS 241	Introductory Ethics	3-4
POLI SCI 272	Introduction to Public Policy	3-4
RELIG ST 102	Exploring Religion in Sickness and Health	3

## CORE COURSES

Code	Title	Credits
<b>Global Health Core Course Requirements</b>		
<i>Gateway Core Requirement: complete one course</i>		3
ENTOM/ ENVIR ST 205	Our Planet, Our Health	
<i>Public Health Core Requirement: complete one course</i>		3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	
ENTOM/ AGRONOMY/ NUTR SCI 203	Introduction to Global Health	
<i>Food Systems and Health Core Requirement: complete one course</i>		3
AGRONOMY 377	Global Food Production and Health	
PL PATH 311	Global Food Security	
<i>Environmental Health Core Requirement: complete one course</i>		3-4
A A E 352	Global Health: Economics, Natural Systems, and Policy	
HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	
<i>Global Disease Biology and Epidemiology Core Requirement: complete one course</i>		3
MICROBIO 345	Introduction to Disease Biology	
NUTR SCI 379	Introduction to Epidemiology	
<b>Total Credits</b>		<b>15-16</b>

## DEPTH COURSES

Complete a minimum of 15 credits of depth courses, with at least 9 credits from one category and at least 6 credits from the other categories.

NUTR SCI/INTER-AG 421 Global Health Field Experience can count for a maximum of 3 credits in the additional 6 credits from this requirement.

Note: Courses used as Depth courses cannot double count as either Core or Capstone courses.

### Public Health, Policy, and Development Depth Electives

Code	Title	Credits
A A E/INTL ST 373	Globalization, Poverty and Development	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
CSCS 410	Human Trafficking: Global and Local Perspectives	3
CSCS 470	The Human Rights of Children and Youth: Global and Local Perspectives	3
CSCS 500	Global Health and Communities: From Research to Praxis	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	3
FRENCH 288	Doctors without Borders (Médecins Sans Frontières)	3

GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEOG 307	International Migration, Health, and Human Rights	3
HISTORY/ INTL ST 330	Global History of Humanitarianism	3-4
ISY E 417	Health Systems Engineering	3
LEGAL ST 473	Health Impacts of Unmet Social Needs	3
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	3
LSC 625	Risk Communication	3
MED HIST/ PHILOS 505	Justice and Health Care	3
MED HIST/ HIST SCI 509	The Development of Public Health in America	3
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/ AFROAMER/ HIST SCI 523	Race, American Medicine and Public Health	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
NUTR SCI 379	Introduction to Epidemiology	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society	3
PUB AFFR 520	Inequality, Race and Public Policy	3
RELIG ST 475	Religion, Global and Public Health	3
SOC/C&E SOC 343	Sociology of Health and Medicine	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3

### Food Systems and Nutrition Depth Electives

Code	Title	Credits
A A E 319	The International Agricultural Economy	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY 377	Global Food Production and Health	3

AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3	CIV ENGR/G L E 421	Environmental Sustainability Engineering	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4	CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
C&E SOC/A A E/ SOC 340	Issues in Food Systems	3-4	C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 341	Labor in Global Food Systems	3	C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3	ENVIR ST/ AMER IND 306	Indigenous Peoples and the Environment	3
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	1	ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 473	International Field Study in Animal Agriculture and Sustainable Development	2	ENVIR ST/ HISTORY 465	Global Environmental History	3-4
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3	F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
HORT 350	Plants and Human Wellbeing	2	GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	2	GEOG/ ENVIR ST 337	Nature, Power and Society	3
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2	GEOG/ ENVIR ST 339	Environmental Conservation	4
HORT 380	Indigenous Foodways: Food and Seed Sovereignty	2	GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology	3	GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
MICROBIO/ FOOD SCI 325	Food Microbiology	3	GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	3
NUTR SCI 332	Human Nutritional Needs	3	LAND ARC 360	Earth Partnership Restoration Education: Indigenous Arts & Sciences	1
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition	3	LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience	3
NUTR SCI 377	Cultural Aspects of Food and Nutrition	3	M&ENVTOX/ CIV ENGR/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
NUTR SCI 431	Nutrition in the Life Span	3	M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 632	Ecotoxicology: The Chemical Players	1
NUTR SCI/ POP HLTH 621	Introduction to Nutritional Epidemiology	1	M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 633	Ecotoxicology: Impacts on Individuals	1
PL PATH 311	Global Food Security	3	M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
SOIL SCI 301	General Soil Science	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3

### Ecosystem Sustainability and Planetary Health Depth Electives

Code	Title	Credits
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E 352	Global Health: Economics, Natural Systems, and Policy	4
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4



POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOIL SCI/ PL PATH 323	Soil Biology	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
URB R PL 550	Transportation and the Built Environment	3

### Disease Biology Depth Electives

Code	Title	Credits
ANAT&PHY 335	Physiology	5
ANAT&PHY 435	Fundamentals of Human Physiology	5
AN SCI/DY SCI 320	Animal Health and Disease	3
BIOCHEM 301	Survey of Biochemistry	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCORE 485	Principles of Physiology	3
BIOCORE 486	Principles of Physiology Laboratory	2
BIOCORE 587	Biological Interactions	3
ENTOM/ ZOOLOGY 371	Medical Entomology	3
GENETICS 466	Principles of Genetics	3
GENETICS 548	The Genomic Revolution	3
GENETICS/ MD GENET 565	Human Genetics	3
M M & I 301	Pathogenic Bacteriology	2
M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
M M & I/ BIOCHEM 575	Biology of Viruses	2
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
MICROBIO 345	Introduction to Disease Biology	3
M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
M&ENVTOX/PATH/ PHM SCI/PHMCOL- M/POP HLTH 626	Toxicology II	3
PATH 404	Pathophysiologic Principles of Human Diseases	3
PATH-BIO/ ENTOM/M M & I/ ZOOLOGY 350	Parasitology	3

POP HLTH/ M M & I 603	Clinical and Public Health Microbiology	5
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## CAPSTONE

Code	Title	Credits
<b>Global Health Capstone Requirement (complete one option)</b>		
ENTOM 570	Systems Thinking in Global Health	3
BIOCORE 587	Biological Interactions	
C&E SOC/ SOC 533	Public Health in Rural & Urban Communities	
CSCS 500	Global Health and Communities: From Research to Praxis	
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Describe the current status of health, well-being and sustainability for humans and all life, the environment, and the planet.
2. Compare and contrast health and environmental conditions in the context of local settings and our state with national, international and global settings.
3. Quantify health challenges in terms of the global burden of disease, the human development index, and the metrics associated with the sustainable development goals and the planetary health boundaries.
4. Evaluate the strengths and weaknesses of contemporary initiatives and programs to improve global public health and sustainable systems.
5. Use socioeconomic and political frameworks to characterize health challenges and demonstrate social awareness.
6. Demonstrate interpersonal and communication skills necessary for teamwork and leadership, ethical conduct, cross-cultural collaboration and civic engagement.

7. Use a systems approach to analyze complex relationships related to creating conditions for healthy life, sustainability and survival and describe the challenges and opportunities related to sustainable systems and survival.

## FOUR-YEAR PLAN

### SAMPLE GLOBAL HEALTH FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
Global Health Core Course	3	Global Health Core Course	3
CHEM 103	4	CHEM 104	5
MATH 113	3	LSC 100	3
CALS First Year Seminar	1	Social Science Category A or B	3-4
Elective	2	Elective	1
	<b>13</b>		<b>15-16</b>

#### Second Year

Fall	Credits	Spring	Credits
Global Health Core Course	3	Global Health Core Course	3
BIOLOGY/BOTANY/ZOOLOGY 151	5	BIOLOGY/BOTANY/ZOOLOGY 152	5
STAT 371	3	Social Science Category A or B	3-4
Ethnic Studies	3	Electives	4
	<b>14</b>		<b>15-16</b>

#### Third Year

Fall	Credits	Spring	Credits
Global Health Core Course	3	Global Health Depth Courses	6
Global Health Depth Course	3	Humanities	3
Electives	10	Electives	6
	<b>16</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Global Health Depth Course	3	Global Health Depth Course	3
Global Health Capstone	3	Humanities	3
Electives	10	Electives	9
	<b>16</b>		<b>15</b>

**Total Credits 119-121**

Students must complete at least 120 total credits to be eligible for graduation.

## ADVISING AND CAREERS

### ADVISING

Each student is assigned an academic advisor who works to understand student goals and helps each student shape their unique Wisconsin

Experience and make the most of their time at UW–Madison. Advisors also provide students career advising, as well as resources and guidance on planning for post-college activities such as graduate/professional school and “gap year” experiences.

Connect with Global Health Advisors (<https://globalhealth.cals.wisc.edu/advising/>)

## CAREER OPPORTUNITIES

The knowledge and skills developed through the global health major prepare students for success in a wide range of careers. Global health students are prepared to become physicians, nurses, researchers, public health officials, policy makers, data analysts, administrators, non-profit employees, educators, and communications specialists in fields related to public health, epidemiology, environmental health, and international development.

Examples of employers seeking individuals with global health training include international agencies (such as the World Health Organization); federal agencies (such as the Centers for Disease Control and Prevention); state and county health departments (such as the Wisconsin Department of Health Services); non-profit organizations (such as the Bill and Melinda Gates Foundation), hospitals; universities; research centers; and biotech companies.

## PEOPLE

### FACULTY AND INSTRUCTORS

Jeri Barak, Department of Plant Pathology

Kerri Coon, Department of Bacteriology

Lori DiPrete Brown, Department of Civil Society and Community Studies

Joshua Garoon, Department of Community and Environmental Sociology

Malia Jones, Department of Community and Environmental Sociology

Richard Keller, Department of Medical History and Bioethics

Susan Paskewitz, Department of Entomology (faculty director)

Jonathan Patz, Nelson Institute for Environmental Studies

Paul Peppard, Department of Population Health Sciences

Daniel Phaneuf, Department of Agricultural and Applied Economics

Sherry Tanumihardjo, Department of Nutritional Sciences

Valentin Picasso Risso, Department of Agronomy

Devika Suri, Department of Nutritional Sciences

Monica White, Department of Community and Environmental Sociology

### ADVISING HUB STAFF

Todd Courtenay, Advisor and Associate Director

Kelcey Daniels, Advisor

Megan Juneau, Advisor

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

#### FIELD EXPERIENCES

Issues related to global health occur everywhere—at community, state, national and international levels—and global health majors are strongly encouraged to participate in one of many field experience options (<https://globalhealth.cals.wisc.edu/about-the-certificate/field-experiences/>) to learn about and help mitigate these challenges. Field experiences can take place locally or internationally, and they range in length from one week to an entire semester. All options emphasize human health and sustainable systems, and help provide students a more personal connection to what they are learning—whether in Kenosha or Kenya.

#### COMMUNITY ENGAGEMENT AND VOLUNTEERING

Students have numerous volunteer activities to choose from related to health improvement. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

#### RESEARCH EXPERIENCE

Global health majors are encouraged to join research teams and laboratories, where they can get involved in health-related research on infectious diseases, environmental health, sustainable agriculture, and community engagement. Many students take advantage of such research opportunities (<https://globalhealth.cals.wisc.edu/involvement/research/>), receiving direct mentorship from professors, scientists, and graduate students.

#### STUDENT ORGANIZATIONS

There are numerous campus student organizations (<https://globalhealth.cals.wisc.edu/involvement/student-orgs/>) that global health majors can join to connect with students with similar interests. A full list of organizations is available on the Wisconsin Involvement Network website (<https://win.wisc.edu/>).

#### INTERNSHIPS

A number of campus internship programs are available that are a good fit for global health majors, including opportunities through the Wisconsin Area Health Education Centers (<https://ahec.wisc.edu/>), Center for Patient Partnerships (<https://patientpartnerships.wisc.edu/>), and the International Division (<https://internships.international.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

### RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually, including funding to help support global health majors who participate in field experiences and study abroad. Students apply for these scholarships through a single application in the Wisconsin Scholarship Hub (WiSH). To learn more about college scholarships please visit the CALS scholarship website (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## GLOBAL HEALTH, CERTIFICATE

### OVERVIEW

The 15-credit certificate provides interdisciplinary perspectives on well-being, health inequities, and the root causes of global health challenges, and it is a great compliment to many majors. The certificate is open to all UW-Madison students and welcomes all who are passionate about improving the health of populations across the world.

Students build knowledge about the global burden of disease and threats to well-being, and are able to identify parallels between local, domestic, and international health issues. Through coursework and field experiences students learn about public and global health careers and build valuable cross-cultural communication skills.

#### CUSTOMIZE A PATH OF STUDY

The certificate curriculum is flexible including core courses, a diverse range of electives, and a credit-bearing field experience requirement, allowing students to enhance the connection between the certificate and their major field of study as desired. Students have added the certificate to more than 50 majors in Agricultural and Life Sciences, Letters & Science, Human Ecology, Education, Nursing, Engineering, and Business.

#### LEARN THROUGH HANDS-ON, REAL-WORLD EXPERIENCES

A required field experience (<https://globalhealth.cals.wisc.edu/about-the-certificate/field-experiences/>) allows students to apply their coursework with a real-life setting where they examine global health issues and explore the connections among human, animal, plant, and environmental health alongside community members and health practitioners in Wisconsin, the U.S., and abroad.

#### GAIN GLOBAL PERSPECTIVE

Core courses provide students with a strong global and comparative framework for understanding complex health challenges, and faculty-led field experiences, whether international or within the US, allow students to learn about global health challenges from leading experts in the field.

#### BUILD COMMUNITY AND NETWORKS

Field experience courses provide opportunities for community-building and high-impact educational experiences in courses with fewer than twenty students. Many students also build connections and develop leadership skills through participation in the many student organizations (<https://globalhealth.cals.wisc.edu/involvement/student-orgs/>) on campus related to global health.

### HOW TO GET IN

Undergraduate students from across campus are encouraged to consider completing the Certificate in Global Health. There are no prerequisites for declaring, and students pursuing the program are encouraged to declare as early as possible so that they can best align the coursework with their interests and plan their field experience.

Students can declare the program by scheduling an appointment with their assigned Global Health advisor, or by filling out the online declaration form on the program's website (<https://education.ghi.wisc.edu/undergraduate-certificate-in-global-health/>).

Students declared in the certificate should plan to complete the program before or alongside their degree and major requirements, as they are not able to extend their time on campus to complete a certificate. Students declared in the Global Health major are not eligible to declare the certificate. Students may not declare both the Certificate in Global Health and the Health and the Humanities Certificate.

## REQUIREMENTS

### MINIMUM REQUIREMENTS

- Minimum grade of C in all certificate coursework
- At least 50% of certificate coursework taken in residence

Code	Title	Credits
<b>Foundation Course Requirement</b>		<b>3</b>
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	
<b>Core Course Requirement (select one)</b>		<b>3-4</b>
Additional core courses can also be taken as elective courses, but a course cannot double count in both categories.		
A A E 352	Global Health: Economics, Natural Systems, and Policy	
AGRONOMY 377	Global Food Production and Health	
CSCS 500	Global Health and Communities: From Research to Praxis	
ENTOM/ ENVIR ST 205	Our Planet, Our Health	
MICROBIO 345	Introduction to Disease Biology	
HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	
NUTR SCI 379	Introduction to Epidemiology	
PL PATH 311	Global Food Security	
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	
<b>Field Experience</b>		<b>1-4</b>
Field experiences are a central component of the certificate program, and range in length from one week to an entire semester. Students are encouraged to complete the field experience prior to their senior year, and should consult the program website for complete information on different field experience programs and courses. <sup>1</sup>		
LAND ARC 360	Earth Partnership Restoration Education: Indigenous Arts & Sciences	
LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience	
LEGAL ST 473	Health Impacts of Unmet Social Needs (Note: this course course requires an application prior to enrollment.)	

NURSING 436 Health and Illness Concepts with Individuals, Families, and Communities: Experiential Learning (Note: only open to Nursing students.)

NUTR SCI/INTER-AG 421 Global Health Field Experience (Note: this is a topics course used for study abroad field experience programs as well as some local courses. Many field experiences require applications prior to enrollment, and students should consult the program website for complete information.)<sup>1</sup>

Electives	4-8
Select from electives list (see below) to reach a minimum of 15 credits total for the certificate.	
<b>Total Credits</b>	<b>15</b>

<sup>1</sup>

Students are advised to consult the program website (<https://education.ghi.wisc.edu/undergraduate-certificate-in-global-health/curriculum/undergraduate-field-experiences/>) for additional information on field experience programs and courses.

### GLOBAL HEALTH ELECTIVE LIST GROUPED BY THEMATIC AREA

#### Public and Community Health

Code	Title	Credits
ANTHRO 365	Medical Anthropology	3
C&E SOC/SOC 532	Health Care Issues for Individuals, Families and Society	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
COM ARTS/JOURN/ LSC 617	Health Communication in the Information Age	3
CSCS 500	Global Health and Communities: From Research to Praxis	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	3
FRENCH 288	Doctors without Borders (Médecins Sans Frontières)	3
INTER-LS/INTER- AG 152	Ways of Knowing: Medicine and Society	1
ISY E 417	Health Systems Engineering	3
KINES 355	Socio-Cultural Aspects of Physical Activity	3
LSC 515	Social Marketing Campaigns in Science, Health and the Environment	3
LSC 625	Risk Communication	3
MED HIST/ HIST SCI 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	3
MED HIST/ PHILOS 505	Justice and Health Care	3

MED HIST/ HIST SCI 509	The Development of Public Health in America	3
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/HIST SCI/ POP HLTH 553	International Health and Global Society	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
NURSING/ S&A PHM/ SOC WORK 105	Health Care Systems: Interdisciplinary Approach	2
NUTR SCI 379	Introduction to Epidemiology	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
RELIG ST 102	Exploring Religion in Sickness and Health	3
RELIG ST 475	Religion, Global and Public Health	3
SOC WORK 206	Introduction to Social Policy	4
SOC WORK 646	Child Abuse and Neglect	2

### Social Determinants and Well-Being

Code	Title	Credits
ANTHRO 265	Introduction to Culture and Health	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
C&E SOC/ AMER IND/SOC 578	Poverty and Place	3
CSCS 410	Human Trafficking: Global and Local Perspectives	3
CSCS 470	The Human Rights of Children and Youth: Global and Local Perspectives	3
GEN&WS 102	Gender, Women, and Society in Global Perspective	3
GEN&WS 103	Gender, Women, Bodies, and Health	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEOG 307	International Migration, Health, and Human Rights	3
HDFS/ CNSR SCI 465	Families & Poverty	3
KINES 353	Health and Physical Education in a Multicultural Society	3

POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
PUB AFFR 520	Inequality, Race and Public Policy	3
RELIG ST 102	Exploring Religion in Sickness and Health	3
SOC 170	Population Problems	3-4
SOC/C&E SOC 343	Sociology of Health and Medicine	3

### Globalization and Development

Code	Title	Credits
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 630	Sociology of Developing Societies/ Third World	3
DS 341	Design Thinking for Transformation	3
DS 527	Global Artisans	3
ECON 448	Human Resources and Economic Growth	3-4
GEN&WS 525	Gender and Global Health in Critical Perspective	3
HISTORY/ INTL ST 330	Global History of Humanitarianism	3-4
INTL ST 101	Introduction to International Studies	3-4

### Agriculture, Food Systems, and Nutrition

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 377	Global Food Production and Health	3
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
BOTANY 240	Plants and Humans	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/SOC 341	Labor in Global Food Systems	3
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	1
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
HORT 350	Plants and Human Wellbeing	2
HORT 370	World Vegetable Crops	3
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2

HORT 380	Indigenous Foodways: Food and Seed Sovereignty	2
NUTR SCI 132 or NUTR SCI 332	Nutrition Today Human Nutritional Needs	3
NUTR SCI 377	Cultural Aspects of Food and Nutrition	3
NUTR SCI/ BIOCHEM 510	Nutritional Biochemistry and Metabolism	3
PL PATH/ BOTANY 123	Plants, Parasites, and People	3
PL PATH 311	Global Food Security	3

### Environmental Health and Sustainability

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
A A E 352	Global Health: Economics, Natural Systems, and Policy	4
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
ENTOM/ ENVIR ST 205	Our Planet, Our Health	3
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
GEOG/ ENVIR ST 139	Global Environmental Issues	3
HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
URB R PL 550	Transportation and the Built Environment	3

### Disease Biology

Code	Title	Credits
ENTOM/ ZOOLOGY 371	Medical Entomology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3

M M & I 301	Pathogenic Bacteriology	2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MICROBIO 345	Introduction to Disease Biology	3
PATH/PATH-BIO 210	HIV: Sex, Society and Science	3
PATH 404	Pathophysiologic Principles of Human Diseases	3
PHM SCI 310	Drugs and Their Actions	2
POP HLTH/ M M & I 603	Clinical and Public Health Microbiology	5

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Identify and articulate the global burden of disease, opportunities and threats to well-being, and the root causes and possible solutions to these challenges.
2. Demonstrate a holistic and critical perspective on human health and well-being.
3. Utilize global frameworks for policy development and action for improved health, well-being, and equity.
4. Identify local, national and international health issues, and the connections between these challenges.
5. Engage and communicate respectfully with diverse colleagues and local partners.
6. Reflect and demonstrate self-awareness, humility, and empathy toward multiple cultural perspectives and knowledge.

## ADVISING AND CAREERS

### ADVISING

Each certificate student is assigned an advisor who works to understand student goals and helps each student shape their path through the certificate. Advisors also provide students with advising around options to fulfill the field experience requirement and post-graduation plans such as "gap year" opportunities, jobs, fellowships, and graduate school.

Connect with Global Health Advisors (<https://globalhealth.cals.wisc.edu/advising/>)

### CAREER OPPORTUNITIES

Many graduates connect their major and certificate studies to best match employers looking for a global health perspective. Areas for future careers are extremely varied, but include healthcare professions, public health and epidemiology, research, policy, education, health communications, environmental health, and international development.

## PEOPLE

### FACULTY AND INSTRUCTORS

Jeri Barak, Department of Plant Pathology

Kerri Coon, Department of Bacteriology

Lori DiPrete Brown, Department of Civil Society and Community Studies

Joshua Garoon, Department of Community and Environmental Sociology

Malia Jones, Department of Community and Environmental Sociology

Richard Keller, Department of Medical History and Bioethics

Susan Paskewitz, Department of Entomology (Director)

Jonathan Patz, Nelson Institute for Environmental Studies

Paul Peppard, Department of Population Health Sciences

Daniel Phaneuf, Department of Agricultural and Applied Economics

Valentin Picasso Riso, Department of Agronomy

Devika Suri, Department of Nutritional Sciences

Sherry Tanumihardjo, Department of Nutritional Sciences

Monica White, Department of Community and Environmental Sociology

### ADVISING HUB STAFF

Todd Courtenay, Advisor and Associate Director

Kelcey Daniels, Advisor

Megan Juneau, Advisor

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

#### INTERNSHIP

Local or international internships may be part of students' field experience requirement. Examples include: Community Health Internship Program with the Wisconsin Areas Health Education Centers (<https://ahec.wisc.edu/>); Resource Navigator Internship Program with the Center for Patient Partnerships (<https://patientpartnerships.wisc.edu/>); Wisconsin in Washington Internship Program (<https://studyabroad.wisc.edu/uwindc/>); and internships through the International Internship Program (<https://internships.international.wisc.edu/>).

#### GLOBAL ENGAGEMENT

Immersive field experiences (<https://globalhealth.cals.wisc.edu/about-the-certificate/field-experiences/>) are a hallmark of the certificate program and include both local and international opportunities. Local field experiences are offered in Madison and throughout Wisconsin, International field experiences are offered across the globe: Mexico, Costa Rica, Ecuador, Tanzania, Ghana, Uganda, Sri Lanka, Nepal, Thailand, Japan, China, Spain, and Austria.

### RESEARCH EXPERIENCE

Many students pursuing the certificate choose to be involved in research (<https://globalhealth.cals.wisc.edu/involvement/research/>) and are mentored by leading researchers in global health. Examples include: studying the effects of climate change on human and ecosystem health; researching ways to prevent Lyme disease spread by ticks; examining how women's empowerment leads to better health outcomes; or investigating methods to evaluate population vitamin A status which informs global health policy.

### COMMUNITY ENGAGEMENT AND VOLUNTEERING

Several student organizations (<https://globalhealth.cals.wisc.edu/involvement/student-orgs/>) on campus are related to global health. These organizations can be a great way to connect with other students with similar interests, network, get involved in the local community (<https://globalhealth.cals.wisc.edu/involvement/community-engagement/>), and learn more about global health or other similar topics. Examples include Slow Food, Community Health Volunteers of Madison, and Partners in Health Engage.

## FOOD SCIENCE

Food science is the application of science and engineering to the production, processing, distribution, preparation, and evaluation of food.

The Department of Food Science at the University of Wisconsin–Madison has been a part of the College of Agricultural and Life Sciences for more than 100 years, instructing generations of food science and industry leaders. Housed in the recently remodeled Babcock Hall, the Department of Food Science offers students a unique undergraduate and graduate experience. Known for our distinguished and dedicated faculty and staff, students find the Department of Food Science a stimulating and encouraging environment to study and conduct research.

The Department of Food Science's undergraduate program offers students valuable real-world experience and leadership skills by providing an innovative curriculum; various club and extracurricular activities; research lab opportunities; access to a fully functional and award-winning dairy plant; professional and industry contacts and experience; numerous internships and scholarships, and nearly 100% job placement.

Students find career opportunities in product development, quality assurance/control, processing and engineering, technical sales, management, research, sensory analysis, and food law and regulations.

## DEGREES/MAJORS/CERTIFICATES

- Food Science, B.S. (p. 160)
- Science of Fermented Food and Beverages, Certificate (p. 164)

## PEOPLE

### Professors

Bradley Bolling, Audrey Girard, Richard Hartel, Tu-Anh Huynh, Barbara Ingham, John Lucey, Gulustan Ozturk, Scott Rankin (chair), Victor Ujor, Jan Peter van Pijkeren

### Instructors

Beth Button, Arnolando Lopez-Hernandez, Yaa Klu, Nick Smith

### Advisors

Professor Brad Bolling, Professor Rich Hartel

Full faculty and staff list (<https://foodsci.wisc.edu/faculty.html>)

## FOOD SCIENCE, B.S.

### Overview

The study of Food Science incorporates real-life aspects of chemistry, physics, microbiology, and engineering to solve today's global and local food problems. The curriculum emphasizes high-level technical competence while instilling communication, critical thinking, and problem-solving skills.

Housed in Babcock Hall, the Food Science major offers close contact with faculty and instructors, opportunities to conduct research, skill-building extracurricular activities, networking with industry professionals, and access to the modern Food Application Lab and a commercial dairy processing plant that manufactures the campus' famous Babcock ice cream.

With a nearly 100% job placement rate, graduates are equipped to compete and succeed in a modern global economy. Students find career opportunities with corporations, government agencies, and nonprofits in product development, quality assurance/control, processing and engineering, technical sales, management, research, sensory analysis, and food law and regulations.

### Learn through hands-on, real-world experience

Hands-on, practical learning is essential to the program, and laboratory courses are included at every level. A capstone course integrates earlier coursework, and students conduct a lab-based research project and analyze and present their findings. Students are encouraged to pursue internships to gain additional experience; many complete more than one before graduation. Some gain practical experience by working in the Babcock Dairy Plant, making consumer dairy products sold on campus. Others participate in undergraduate research projects on food quality, microbiology, chemistry, and food and health.

### Build community and networks

Faculty teach courses at every level and are on a first-name basis with students. The Food Science Club student organization is active and provides students with leadership opportunities and connections to alums and industry professionals. Additionally, more than 40 companies recruit students annually, providing many links to professionals and job opportunities.

### Customize a path of study

Students can select from lab-based elective courses focused on dairy, candy, meat, or fermented foods. The program also offers students the option to participate in Honors in Food Science.

### Make a strong start

A course for first-year students focuses on discovering food science and includes study skills, on-campus networking, resume writing, job interview skills, and learning from alums about career options.

### Gain global perspective

Study abroad is encouraged and students can use the program's road map to take advantage of summer and winter break study abroad opportunities or even a semester abroad with careful planning. Students can explore studying abroad as a Food Science major by utilizing the Food Science Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW-Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college



requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

## COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

NUTR SCI/A A E/AGRONOMY 350 World Hunger and Malnutrition is recommended to fulfill the CALS International Studies requirement.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
This major requires calculus. Prerequisites may need to be taken before enrollment in calculus.		
Complete one of the following: 5		
	MATH 217 Calculus with Algebra and Trigonometry II <sup>1</sup>	
	MATH 221 Calculus and Analytic Geometry I	
Complete one of the following: 3		
	STAT 301 Introduction to Statistical Methods	
	STAT 371 Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
<i>General Chemistry</i>		
Complete one of the following: 5-9		
	CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	
<i>Organic Chemistry</i>		
	CHEM 343 Organic Chemistry I	3
	CHEM 344 Introductory Organic Chemistry Laboratory	2
	CHEM 345 Organic Chemistry II	3

<b>Physics</b>		
Complete one of the following: 4-5		
	PHYSICS 103 General Physics	
	PHYSICS 201 General Physics	
	PHYSICS 207 General Physics	
<b>Biology</b>		
<i>Introductory Biology</i>		
	BIOLOGY/BOTANY/ ZOOLOGY 151 Introductory Biology	5
Complete one of the following: 3-5		
Any course numbered 400 or above with Biological Science designation		
	BIOLOGY/ BOTANY/ ZOOLOGY 152 Introductory Biology	
<i>Fundamental Biological Sciences</i>		
	MICROBIO 101 General Microbiology or MICROBIO 303 Biology of Microorganisms	3
	MICROBIO 102 General Microbiology Laboratory or MICROBIO 304 Biology of Microorganisms Laboratory	2
	BIOCHEM 501 Introduction to Biochemistry	3
<b>Foundation</b>		
<i>Economics and Applied Economics</i>		
Complete one of the following: 3		
	A A E 215 Introduction to Agricultural and Applied Economics	
	A A E 323 Cooperatives and Alternative Forms of Enterprise Ownership	
	ECON 101 Principles of Microeconomics	
	ECON 111 Principles of Economics-Accelerated Treatment	
<i>Nutritional Science</i>		
	NUTR SCI/ BIOCHEM 510 Nutritional Biochemistry and Metabolism or NUTR SCI 332 Human Nutritional Needs	3
<b>Core</b>		
	FOOD SCI 301 Introduction to the Science and Technology of Food	3
	AN SCI/FOOD SCI 321 Food Laws and Regulations	1
	FOOD SCI/ MICROBIO 324 Food Microbiology Laboratory	2
	FOOD SCI/ MICROBIO 325 Food Microbiology	3
	FOOD SCI 410 Food Chemistry	3
	FOOD SCI 412 Food Analysis	4
	FOOD SCI 432 Principles of Food Preservation	3
	FOOD SCI 440 Principles of Food Engineering	3
	FOOD SCI 514 Integrated Food Functionality	4
	FOOD SCI 532 Integrated Food Manufacturing	4
<i>Integrated Food Product Elective</i>		
Complete one of the following (2 credits minimum): 2		
	FOOD SCI 511 Chemistry and Technology of Dairy Products	

FOOD SCI/ AN SCI 515	Commercial Meat Processing	
FOOD SCI 535	Confectionery Science and Technology	
FOOD SCI 550 & FOOD SCI 551	Fermented Foods and Beverages and Food Fermentation Laboratory	
<i>Science Elective</i>		
Any course numbered 400 or above with Physical Science designation		3
<b>Capstone</b>		
FOOD SCI 602	Senior Project	2
FOOD SCI 603	Senior Seminar	1
<b>Total Credits</b>		<b>85-92</b>

1

MATH 217 Calculus with Algebra and Trigonometry II requires MATH 171 Calculus with Algebra and Trigonometry I as a prerequisite.

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take FOOD SCI 681 Senior Honors Thesis and FOOD SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors Program page (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Clearly and effectively communicate, both verbally and written, to a diverse range of audiences including technical experts and a lay audience.
2. Apply quantitative problem solving and critical thinking skills in all aspects of food science.
3. Rigorously apply scientific principles and quantitative reasoning to solve food science problems (technical competence).
4. Demonstrate the ability to work both independently and in groups across a wide range of situations.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE FOOD SCIENCE FOUR-YEAR PLAN

##### First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109 <sup>1</sup>		4 CHEM 104 <sup>1</sup>	5
MATH 221		5 BIOLOGY/BOTANY/ ZOOLOGY 151	5
Communications A requirement (COMM-A) <sup>2</sup>		3 FOOD SCI 201 (recommended)	1
CALS First-Year Seminar		1 Ethnic Studies	3
		<b>13</b>	<b>14</b>

##### Second Year

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 344 & CHEM 345	5
FOOD SCI 301		3 STAT 371 or 301	3
MICROBIO 101 & MICROBIO 102		5 PHYSICS 103, 201, or 207	4

CALS International Studies	3 General Education Course	3
<b>14</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
BIOCHEM 501		3 NUTR SCI 332 or 510	3
FOOD SCI 440		3 FOOD SCI/AN SCI 321	1
FOOD SCI 410		3 FOOD SCI 432	3
MICROBIO/ FOOD SCI 324 & MICROBIO/ FOOD SCI 325		5 FOOD SCI 412	4
General Education Course <sup>3</sup>		3 General Education Course	3
		Integrated Food Product Elective <sup>4</sup>	1-3
<b>17</b>		<b>15-17</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
FOOD SCI 532		4 FOOD SCI 514	4
FOOD SCI 602		2 FOOD SCI 603 <sup>2</sup>	1
General Education Course		3 Science Elective <sup>5</sup>	3-5
Integrated Food Product Elective <sup>4</sup>		1-3 General Education Course	3
Science Elective <sup>5</sup>		3-5 Integrated Food Product Elective <sup>4</sup>	1-3
<b>13-17</b>		<b>12-16</b>	

**Total Credits 113-123**

1

Students taking CHEM 109 do not take CHEM 104.

2

Note that the Communications B requirement (Comm-B) is met through FOOD SCI 602 Senior Project & FOOD SCI 603 Senior Seminar

3

Students may choose to complete a General Education Course requirement this semester. Note: Enrolling in 17 credits this semester is not recommended.

4

Students are required to take at least one Integrated Food Product Elective course; students may choose to meet the Integrated Food Product Elective requirement during this semester.

Note: FOOD SCI 550 Fermented Foods and Beverages must be taken with FOOD SCI 551 Food Fermentation Laboratory to meet the Food Product Elective Requirement.

5

Both Biological and Physical Science elective classes are required  
Biological: 3 credits of any B designated course numbered 400 or above; or BIOLOGY/BOTANY/ZOOLOGY 152 Introductory Biology (5 credits)  
Physical: 3 credits of any P designated course numbered 400 or above.

**Note: Students must complete a minimum of 120 credits. This may require taking 16 credits per semester for at least four semesters.**

**ADVISING AND CAREERS****Advising**

All students are assigned a faculty or staff advisor once they declare the major. Advisors are prepared to help with curricular planning and course access; major and degree questions; discussion of independent study and lab research experience; and navigating internship and scholarship opportunities. Declared Food Science majors must meet with their assigned advisor before semester enrollment. Additional information can be found on the department's website.

Prospective food science majors should contact the Department of Food Science at [foodsci@wisc.edu](mailto:foodsci@wisc.edu) or 608-265-2729 for more information.

**Career Opportunities**

More than 40 organizations recruit students each year, and nearly all Food Science majors receive a job offer before graduation. Careers include working in product development, quality assurance/control, processing and engineering, technical sales, management, research, sensory analysis, and food law and regulations for corporations, nonprofits, and government agencies. Faculty advisors and course assignments help prepare students to write resumes, interview for jobs, and network with professionals in the field.

**PEOPLE****Professors**

Bradley Bolling, Audrey Girard, Richard Hartel, Tu-Anh Huynh, Barbara Ingham, John Lucey, Gulustan Ozturk, Scott Rankin (chair), Victor Ujor, Jan Peter van Pijkeren

**Instructors**

Beth Button, Arnaldo Lopez-Hernandez, Yaa Klu, Nick Smith

**Advisors**

Professor Brad Bolling, Professor Rich Hartel

Full faculty and staff list (<https://foodsci.wisc.edu/faculty.html>)

**WISCONSIN EXPERIENCE****Student organizations**

The Food Science Club organizes many programs, including mentoring first-year students, organizing company visits and tours, monthly socials, K-12 educational outreach, a food and health initiative, and a food systems initiative. Faculty advise the club, and activities are coordinated with coursework.

**Competitive teams**

The Food Science Club coordinates many competitions. Each year, there are several different product development competitions, which are very popular with students. There is also a College Bowl, a food science trivia competition, and a dairy judging team that competes regionally and nationally.

## Internships

Advisors encourage students to pursue internships with one of the dozens of companies connected to the program. Most students complete at least one internship before graduation, but some complete as many as three. Students spend their summers at companies that include General Mills, Pepsico, Kraft-Heinz, Organic Valley, Danone, Agropur, Schreiber Cheese, Lindt Chocolate, and many more. These internships are generally paid, and many have lodging subsidies.

Students can also gain experience in several campus centers and programs focused on food, including the Babcock Dairy Plant, Center for Dairy Research, Food Research Institute, or Bucky's Varsity Meats.

## Research experience

First-year students are encouraged to pursue research experiences in faculty labs to get involved. Undergraduates can participate for credit through independent study or work for pay. Students working in faculty labs have been co-authors of scientific publications in food science and nutrition journals.

## Global engagement

With advance planning, students can study abroad and complete the degree in four years. Opportunities include: France, the Netherlands, and Australia. Read more about study abroad as a Food Science major. (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/food-science/>)

## Community engagement and volunteering

The Food Science Club organizes various volunteer activities. These have included dinners at the Ronald McDonald House, working with food pantries, and reducing food waste.

## RESOURCES AND SCHOLARSHIPS

### Scholarships

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships.

Food Science students are additionally eligible for \$25,000 in annual scholarships. Well-qualified students receive awards ranging from \$1,000-\$3,000.

### Resources

Babcock Dairy Plant. Want practical experience in a fully operational dairy plant? Consider signing up for part-time work in the Babcock Dairy Plant to gain experience in a wide range of practical jobs, from quality control to production.

Babcock Hall Food Application Lab. This lab has 11 culinary workstations, food service equipment, and other amenities needed to prepare food at both small and food service scales.

Center for Dairy Research (CDR). Also within Babcock Hall is the internationally-renowned Center for Dairy Research. Students can conduct research, work in the analytical labs, or participate in the CDR Sensory Panel to gain invaluable practical experience.

Food Research Institute (FRI). Housed in the Microbial Sciences Building, FRI conducts industry-oriented research on various food safety topics.

Bucky's Varsity Meats. Interested in meat science? The meat processing facilities within the Department of Animal and Dairy Sciences apply many food science principles and provide a unique opportunity for students to get hands-on experience with all aspects of meat production.

## SCIENCE OF FERMENTED FOOD AND BEVERAGES, CERTIFICATE

**Admissions to the Science of Fermented Food and Beverages, Certificate have been suspended as of fall 2022 and will be discontinued as of fall 2025. If you have any questions, please contact the department.**

The purpose of this certificate program is to provide undergraduates at UW-Madison with an opportunity to gain unique knowledge and skill sets specific to the fermented food and beverage industries. Students that successfully complete this program will graduate with a competitive edge and leadership potential specific to career opportunities in this unique and growing field.

## HOW TO GET IN

**Admissions to the Science of Fermented Food and Beverages, Certificate have been suspended as of fall 2022 and will be discontinued as of fall 2025. If you have any questions, please contact the department.**

This certificate is open to all degree-seeking undergraduate students. Students must be over the age of 21 by the time they take the lab requirements (FOOD SCI 551 Food Fermentation Laboratory or FOOD SCI 552 Food Fermentation Laboratory: The Science of Wine). For more information, or to declare the certificate, contact Rich Hartel ([rwhartel@wisc.edu](mailto:rwhartel@wisc.edu)). Students are strongly encouraged to declare the certificate early in their academic career to ensure timely completion of certificate requirements.

## REQUIREMENTS

Code	Title	Credits
FOOD SCI 410	Food Chemistry	3
FOOD SCI 550	Fermented Foods and Beverages	2
FOOD SCI 551 or FOOD SCI 552	Food Fermentation Laboratory Food Fermentation Laboratory: The Science of Wine	1
MICROBIO/ FOOD SCI 325	Food Microbiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 526	Physiology of Microorganisms	3
MARKETNG 300	Marketing Management	3
<b>Total Credits</b>		<b>18</b>

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Identify and describe how microbial and chemical features of ingredients and raw materials influence the quality and functionality of fermented foods and beverages.
2. Explain the compositional features of ingredients and raw materials specific to various fermented foods and beverages.
3. Identify and describe the operational units and transformational processes unique to the production of fermented foods and beverages.
4. Design and produce fermented foods and/or beverages that meet specified standards for styles or varieties.
5. Measure and interpret analytics to assess quality and correct defects.
6. Describe the concept of branding and its impact on marketing fermented foods and beverages.

### ADVISING AND CAREERS

For more information or to declare the certificate in the science of fermented food and beverages, contact:

Richard W. Hartel  
 rwhartel@wisc.edu (mltheis@wisc.edu)  
 608-263-1965  
 A13 Babcock Hall  
 1605 Linden Dr, Madison, WI 53706

### PEOPLE

Nick Smith, Ecologist and Instructor  
 Victor Ujor, Assistant Professor, Food Science

Advisor: Richard W. Hartel

### WISCONSIN EXPERIENCE

The experiences offered through this certificate provide students with a number of opportunities to fulfill the Wisconsin Experience. In addition to 18 credits of rigorous course work with a focus on the science of fermentation, students work directly with local brewers, winemakers and bakers where they can explore innovations in product development, apply their knowledge and help local industries solve problems specific to their craft. Engagement allows for intellectual growth as well as an appreciation for the influence of local culture and values on what makes for "good" food and beverages.

Our industry and campus partners celebrate curiosity and exploration by allowing students to experiment with novel ingredients such as wild yeast, winter hardy grapes and local hops. Most exciting of all, students find that

they can make a direct contribution to food and beverage products that are launched into the Wisconsin marketplace.

## FOREST AND WILDLIFE ECOLOGY

The Department of Forest and Wildlife Ecology provides science-based teaching that prepares future natural resource professionals to sustainably manage and conserve forests and wildlife. Building on the rich traditions of Aldo Leopold (the department's first chair), we offer students an interdisciplinary environment to learn about the natural world, apply science to management toward sustainable ecological systems, and understand complex human-environment relationships. We offer two undergraduate majors—Forest Science and Wildlife Ecology—that provide opportunities for employment in the public, private, and non-governmental sectors. Students can also gain a strong foundation for graduate training in forestry, wildlife, ecology, and related fields. The Forest Science program is accredited by the Society of American Foresters. The Wildlife Ecology major provides a path to becoming a certified wildlife biologist. Both degrees provide a mix of field, lab, and classroom experiences.

The department also offers graduate programs at the M.S. and Ph.D. levels. See the Graduate Guide (<http://guide.wisc.edu/graduate/>) for additional information.

### DEGREES/MAJORS/CERTIFICATES

- Forest Science, B.S. (p. 166)
- Wildlife Ecology, B.S. (p. 172)

### PEOPLE

#### PROFESSORS

Bowe, Scott  
 Burivalova, Zuzana  
 Chen, Min  
 Drake, David  
 Karasov, William  
 Hua, Jessica  
 Kruger, Eric (chair)  
 Ozdogan, Mutlu  
 Pauli, Jonathan  
 Peery, M. Zach  
 Pidgeon, Anna  
 Radeloff, Volker  
 Rickenbach, Mark  
 Rissman, Adena  
 Townsend, Philip  
 Van Deelen, Timothy  
 Zuckerberg, Benjamin

#### AFFILIATED FACULTY

Balster, Nick (Soil Science)  
 Marin-Spiotta, Erika (Geography)

#### INSTRUCTORS AND TEACHING FACULTY

Berkelman, James

Nack, Jamie  
Meindl, George

## ADVISOR

Hochmuth, Allee

For faculty and staff profiles, visit <https://forestandwildlifeecology.wisc.edu/people/faculty-and-staff/>

## FOREST SCIENCE, B.S.

Forests cover one-third of Earth and nearly half of Wisconsin. They provide diverse habitat, wood and fiber, clean water, carbon storage, recreation, beauty, and connections to many cultures. Forest managers and scientists work largely outdoors to conserve and manage forest resources and respond to disturbances from insects, diseases, wildfire, fragmentation, deforestation, and other changes. They also use technology to map and inventory forests.

Students in forest science learn the skills needed for many career paths through a mix of classroom, laboratory, and field instruction. They make frequent visits to forests and engage in professional and student-led trainings and networking. Students have flexibility to customize their learning experience through a variety of different elective options.

The department offers excellent teaching, research, and computing facilities. Classes are sized to ensure that undergraduates receive individual attention. Each student has a faculty adviser, and many students gain experience assisting faculty with research projects.

Students go on to work as foresters, park rangers, conservation scientists, educators, researchers, environmental planners, arborists, and more. Graduates of the program also pursue graduate training in forestry, ecology, natural resource policy, or environmental law. Forest science has an excellent job placement track record.

### Learn through hands-on, real world experiences

Forest science students learn in many field and laboratory courses, putting their knowledge to work in outdoor, everyday circumstances. They also participate in a variety of opportunities beyond campus, including a three-week introduction to forest ecosystems in northern Wisconsin and summer research opportunities. All forest science undergraduates are required to complete an internship, often with a federal, state, or local government agency, an environmental nonprofit organization, timber industry firm, or environmental consultant.

### Build community and networks

Students can join a competitive quiz bowl team and the Forestry Club (<https://www.facebook.com/WUMadisonForestryClub/>), UW–Madison’s Student Chapter of the Society of American Foresters. The club organizes the annual holiday tree sale, and students can attend a national foresters conference and take part in trainings for prescribed burns, chainsaw use and tree identification. Forest science undergraduates also have opportunities to work with local schools to help kids understand the forests around them.

### Customize a path of study

Forest science students select from a large variety of classes to fit their career goals. Students can customize their learning experience and choose electives in focus areas such as forest conservation, forests and

the environment, and forest management. In consultation with advisors, students will choose electives in alignment with their unique professional interests. The program meets accreditation standards of the Society of American Foresters, a key credential for many jobs.

### Make a strong start

Students can take introductory courses that focus on forest science and the department’s curriculum. One course explores forests of the world, as well as threats to forests, their roles in climate change, and strategies to conserve and manage them.

### Gain global perspective

Forest science students are encouraged to complete study abroad experiences. Students can explore studying abroad as a Forest Science major utilizing the Forest Science Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/forest-science/>). Students work with their advisor and the CALS study abroad office (<https://cals.wisc.edu/academics/undergraduate-students/studyabroad/>) to identify appropriate programs. The department also offers an international course focused on the extinction of species.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Code	Title	Credits
Complete one of the following (or may be satisfied by placement exam):		
	MATH 112 Algebra & MATH 113 and Trigonometry	5-6

	MATH 114 Algebra and Trigonometry	
Complete one of the following:		
	STAT 301 Introduction to Statistical Methods	3
	STAT 371 Introductory Applied Statistics for the Life Sciences (recommended)	
<b>Chemistry</b>		
Complete one of the following:		
	CHEM 103 General Chemistry I	4-5
	CHEM 108 Chemistry in Our World	
	CHEM 109 Advanced General Chemistry	
<b>Biology</b>		
Complete one of the following options:		
Option 1 (recommended introduction to biology sequence):		
	BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory
Option 2:		
	BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology
Option 3:		
	BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory
<b>Economics</b>		
	A A E 215 or ECON 101	Introduction to Agricultural and Applied Economics Principles of Microeconomics
		4
<b>Wildlife Ecology</b>		
Complete one of the following: <sup>1</sup>		
	F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions
	F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species <sup>2</sup>
	F&W ECOL 379	Principles of Wildlife Management
	F&W ECOL/ AN SCI/ ZOOLOGY 520	Ornithology
<b>Core</b>		
Grade of C or better required in each core course		
	SOIL SCI 301 or SOIL SCI/ ENVIR ST/ GEOG 230	General Soil Science Soil: Ecosystem and Resource
		3
	F&W ECOL 300	Forest Biometry
		4

GEOG/CIV ENGR/ ENVR ST 377 or F&W ECOL/ ENVR ST/G L E/ GEOG/GEOSCI/ LAND ARC 371	An Introduction to Geographic Information Systems Introduction to Environmental Remote Sensing	3-4
BOTANY/F&W ECOL 402	Dendrology	2
F&W ECOL 305	Forest Operations	2
F&W ECOL 390	Learning to Action: Professional Development	1
F&W ECOL 410 & F&W ECOL 411	Principles of Silviculture and Practices of Silviculture	4
ENVR ST/F&W ECOL 515 or ENVR ST/ ECON/POLI SCI/ URB R PL 449 or ENVR ST/ GEOG 439	Natural Resources Policy (recommended, satisfies Communications B requirement) Government and Natural Resources US Environmental Policy and Regulation	3
F&W ECOL 448 & F&W ECOL 449 & F&W ECOL 450	Disturbance Ecology and Disturbance Ecology Lab (I): Herbivores and Fire and Disturbance Ecology Lab (II): Forest Pathogens	5
F&W ECOL 550 & F&W ECOL 551	Forest Ecology and Forest Ecology Lab	4
A A E/ENVR ST/ F&W ECOL 652	Decision Methods for Natural Resource Managers	4
F&W ECOL 658	Forest Resources Practicum	3
<b>Electives</b>		
Complete 12 credits from Major Electives (see list below)		12
<b>Capstone</b>		
Grade of C or better required in Capstone		
F&W ECOL 590	Integrated Resource Management	3

**Total Credits 82-85**

1  
Students may take multiple courses in this category. Courses taken beyond the requirement may count as Major Electives.

2  
May also fulfill CALS International Studies requirement.

### MINIMUM GRADE REQUIREMENT

Students will be required to receive a grade of C or higher on all of the Forest Science Core courses and the Capstone. Students who receive a grade of D or below will be required to retake the course for graduation.

## MAJOR ELECTIVES

### FOREST SCIENCE MAJOR ELECTIVES

Code	Title	Credits
Complete at least 12 credits from the following courses.		12
Students can focus their interests using the categories.		

*Soils and Landscapes:*

F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
GEOG 329	Landforms and Landscapes of North America
LAND ARC 668	Restoration Ecology
SOIL SCI 325	Soils and Landscapes
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
<i>Economics and Business:</i>	
A A E/ ENVR ST 244	The Environment and the Global Economy
A A E/ECON/ ENVR ST 343	Environmental Economics
A A E/ECON 371	Energy, Resources and Economics
A A E 419	Agricultural Finance
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors
INTL BUS 200	International Business
LSC 270	Marketing Communication for the Sciences
M H R 300	Managing Organizations
M H R 305	Human Resource Management
M H R 401	The Management of Teams
OTM 300	Operations Management
<i>Urban and Wildland Forest Management:</i>	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
HORT/ LAND ARC 263	Landscape Plants I
HORT/ AGRONOMY/ SOIL SCI 326	Plant Nutrition Management
<i>GIS/Remote Sensing:</i>	
ENVR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing
ENVR ST/ SOIL SCI 575	Assessment of Environmental Impact
ENVR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources
GEOG 370	Introduction to Cartography
GEOG/ CIV ENGR/ ENVR ST 377	An Introduction to Geographic Information Systems
GEOG 378	Introduction to Geocomputing
<i>Wildlife and Fisheries Ecology:</i>	
GEOG/ BOTANY 338	Environmental Biogeography
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 318	Principles of Wildlife Ecology
F&W ECOL 379	Principles of Wildlife Management



F&W ECOL 404	Wildlife Damage Management
F&W ECOL 655	Animal Population Dynamics
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin
<i>Ecology and Biological Diversity</i>	
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM/ BOTANY/ ZOOLOGY 473	Plant-Insect Interactions
BOTANY/ PL PATH 332	Fungi
BOTANY/ PL PATH 333	Biology of the Fungi
BOTANY 401	Vascular Flora of Wisconsin
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
ZOOLOGY/ F&W ECOL/ LAND ARC 565	Principles of Landscape Ecology
<i>Conservation Biology</i>	
F&W ECOL/ ENVIR ST 100	Forests of the World
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species
F&W ECOL/ BOTANY/ ENVIR ST/ ZOOLOGY 651	Conservation Biology
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology
GEOG/ ENVIR ST 339	Environmental Conservation
LAND ARC/ ENVIR ST 361	Wetlands Ecology
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology

*Natural Resource Management and Policy*

A A E/ECON/ F&W ECOL 531	Natural Resource Economics
ENVIR ST/ BSE 367	Renewable Energy Systems
ENVIR ST/ GEOSCI 411	Energy Resources
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
F&W ECOL 561	Wildlife Management Techniques
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation
PL PATH 300	Introduction to Plant Pathology
<i>Earth and Atmospheric Science</i>	
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
ATM OCN/ ENVIR ST/ GEOG 332	Global Warming: Science and Impacts
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
F&W ECOL/ SOIL SCI 451	Environmental Biogeochemistry
GEOG 342	Geography of Wisconsin
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ PL PATH 323	Soil Biology
<i>Human and Social Dimensions of Ecology</i>	
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment
AMER IND/ ENVIR ST 341	Indigenous Environmental Communicators
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
C&E SOC/ CURRIC/ ENVIR ST 405	Education for Sustainable Communities
C&E SOC/ SOC 541	Environmental Stewardship and Social Justice

ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ HIST SCI 353	History of Ecology
ENVIR ST/ PHILOS 441	Environmental Ethics
ENVIR ST/GEOG/ HISTORY 460	American Environmental History
<b>Total Credits</b>	<b>12</b>

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take F&W ECOL 681 and F&W ECOL 682 when completing their thesis project; please see the Honors Program page (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
<b>Quality of Work</b>	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Ecology) Understanding of taxonomy and ability to identify forest and other tree species, their distribution, and associated vegetation and wildlife.
2. (Ecology) Understanding of soil properties and processes, hydrology, water quality, and watershed functions.
3. (Ecology) Understanding of ecological concepts and principles including the structure and function of ecosystems, plant and animal communities, competition, diversity, population dynamics, succession, disturbance, and nutrient cycling.
4. (Ecology) Ability to make ecosystem, forest, and stand assessments.
5. (Ecology) Understanding of tree physiology and the effects of climate, fire, pollutants, moisture, nutrients, genetics, insects and diseases on tree and forest health and productivity.
6. (Forest Resources Measurement and Management) Ability to identify and measure land areas and conduct spatial analysis.
7. (Forest Resources Measurement and Management) Ability to design and implement comprehensive inventories that meet specific objectives using appropriate sampling methods and units of measurement.
8. (Forest Resources Measurement and Management) Ability to analyze inventory data and project future forest, stand, and tree conditions.
9. (Forest Resources Measurement and Management) Ability to develop and apply silvicultural prescriptions appropriate to management objectives, including methods of establishing and influencing the composition, growth, and quality of forests, and understand the impacts of those prescriptions.
10. (Forest Resources Measurement and Management) Ability to analyze the economic, environmental, and social consequences of forest resource management strategies and decisions.
11. (Forest Resources Measurement and Management) Ability to develop management plans with specific multiple objectives and constraints.
12. (Forest Resources Measurement and Management) Understanding of the valuation procedures, market forces, processing systems, transportation and harvesting activities that translate human demands for timber-based and other consumable forest products into the availability of those products.
13. (Forest Resources Measurement and Management) Understanding of the valuation procedures, market, and non-market forces that avail humans the opportunities to enjoy non-consumptive products and services of forests.
14. (Forest Resources Measurement and Management) Understanding of the administration, ownership, and organization of forest management enterprises.

15. (Forest Resource Policy, Economics, and Administration) Understanding of forest policy and the processes by which it is developed.
16. (Forest Resource Policy, Economics, and Administration) Understanding of how federal, state, and local laws and regulations govern the practice of forestry.
17. (Forest Resource Policy, Economics, and Administration) Ability to understand the integration of technical, financial, human resources, and legal aspects of public and private enterprises.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

The four-year plan is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and Course Search & Enroll to determine your program of study. Your program of study will likely look different from this sample four-year plan. Consult with your advisor to determine the best path for you. Courses may not be offered every year, so plan ahead with your advisor.

### SAMPLE FOREST SCIENCE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 112 <sup>1</sup>	3	MATH 113 <sup>1</sup>	3
F&W ECOL/ ENVIR ST 100 (recommended for CALS International Studies requirement)	3	CHEM 103, 108, or 109	4-5
INTER-AG 155 (CALS First Year Seminar)	1	BIOLOGY/ BOTANY 130 <sup>2</sup>	5
A A E 215 or ECON 101	4	Ethnic Studies	3
COMM A Course	3		
	<b>14</b>		<b>15-16</b>

#### Second Year

Fall	Credits	Spring	Credits	Summer	Credits
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	5	F&W ECOL 300	4	F&W ECOL 658 <sup>3</sup>	3
SOIL SCI 301	3	GEOG/ CIV ENGR/ ENVIR ST 377 or F&W ECOL 371	3-4		
F&W ECOL/ BOTANY 402	2	Electives	6-7		
STAT 371 or 301	3				
	<b>13</b>		<b>13-15</b>		<b>3</b>

#### Third Year

Fall	Credits	Spring	Credits
F&W ECOL/ ENVIR ST 515	3	F&W ECOL 410 & F&W ECOL 411	4
F&W ECOL 550 & F&W ECOL 551	4	F&W ECOL 448	3
Major Electives	6	F&W ECOL 449	1
Humanities	3	Major Elective	3
		Social Sciences	3
	<b>16</b>		<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
F&W ECOL 390 <sup>3</sup>	1	F&W ECOL/ A A E/ ENVIR ST 652	4
F&W ECOL 590	3	F&W ECOL 305	2
F&W ECOL 450	1	Electives	9
Major Electives	3		
Humanities	3		
Electives	5		
	<b>16</b>		<b>15</b>

#### Total Credits 119-122

Students must complete at least 120 total credits to be eligible for graduation.

1

MATH course dependent on placement score and transfer credit evaluation.

2

BIOLOGY/BOTANY 130, BIOLOGY/ZOOLOGY 101 & BIOLOGY/ZOOLOGY 102 are strongly recommended to satisfy the introductory biology requirement for forest science, but students may use BIOLOGY/BOTANY/ZOOLOGY 151 & BIOLOGY/BOTANY/ZOOLOGY 152.

3

Students should plan ahead for this course with their advisor, as it may not be offered every year.

## ADVISING AND CAREERS

### ADVISING

Students are assigned an academic advisor as well as a faculty advisor. Faculty members lead undergraduate research, advise students on career planning, and help students with critical thinking. Professional academic advisors help students plan their coursework, identify internship opportunities, as well as ways to get involved in department and campus activities.

#### Career Opportunities

Undergraduates in forest science prepare for a variety of career opportunities. They can work as foresters, arborists, park rangers, conservation scientists, environmental educators, geospatial analysts, researchers, and more. They also pursue graduate training in forestry, ecology, natural resource policy, or environmental law. Graduates of the program work for many organizations including the U.S. Forest Service,

the Wisconsin Department of Natural Resources, the Society of American Foresters, the Aldo Leopold Foundation, environmental consultants, and private corporations.

## PEOPLE

### PROFESSORS

Bowe, Scott  
 Burivalova, Zuzana  
 Chen, Min  
 Drake, David  
 Karasov, William  
 Hua, Jessica  
 Kruger, Eric (chair)  
 Ozdogan, Mutlu  
 Pauli, Jonathan  
 Peery, M. Zach  
 Pidgeon, Anna  
 Radeloff, Volker  
 Rickenbach, Mark  
 Rissman, Adena  
 Townsend, Philip  
 Van Deelen, Timothy  
 Zuckerberg, Benjamin

### AFFILIATED FACULTY

Balster, Nick (Soil Science)  
 Marin-Spiotta, Erika (Geography)

### INSTRUCTORS AND TEACHING FACULTY

Berkelman, James  
 Nack, Jamie  
 Meindl, George

### ADVISOR

Hochmuth, Allee

For faculty and staff profiles, visit <https://forestandwildlifeecology.wisc.edu/people/faculty-and-staff/>

## WISCONSIN EXPERIENCE

### INTERNSHIPS

All forest science undergraduates are required to complete an internship. Students find positions outdoors, as well as laboratory and analytical positions. See the Internship & Job Resources (<https://forestandwildlifeecology.wisc.edu/academics/undergraduate-programs/internship-job-resources/>) page for more information.

### RESEARCH EXPERIENCE

Forest science undergraduates can undertake independent research by joining a professor's field- or lab- based research activities. In their research experiences, students gain skills in a variety of forest science areas including forest structure and function, forest policy, human dimensions of forest management, forest economics, and plant species identification.

### STUDENT ORGANIZATIONS

Students can join the Forestry Club, UW-Madison's Student Chapter of the Society of American Foresters. The club organizes the annual holiday tree sale, and students can attend a national foresters conference and take part in trainings for prescribed burns, chainsaw use and tree identification.

### COMPETITIVE TEAMS

Students can join a quiz bowl team that competes at the national Society of American Foresters annual conference.

### GLOBAL ENGAGEMENT

Forest science students are encouraged to complete a study abroad experience. The department also offers an international course focused on the extinction of species that meets the CALS International Studies requirement. Students can find more information on the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

### COMMUNITY ENGAGEMENT AND VOLUNTEERING

Students involved in the Forestry Club volunteer at a number of activities including the annual holiday tree sale. Forest science undergraduates also have opportunities to work with local schools to help kids understand the forests around them.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

There are five scholarships available to forest science students and fellowships are available for students to conduct research with professors. Students across the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

UW-Madison offers a special practicum course for majors known as "Forestry Camp." The Forest Resources Practicum is an intensive, three-week field course at the Kemp Natural Resources Station (<https://kemp.wisc.edu/>) in Woodruff, Wisconsin. Students learn firsthand about forest ecosystem structure, function, processes, and services. Subject areas include basic field skills, plant identification, GPS, forest soils, wildlife survey methods, and forest ecology. Students at Forestry Camp work closely with faculty and natural resource professionals.

## ACCREDITATION

### Accreditation

Society of American Foresters (<https://www.eforester.org/>)

Accreditation status: Accredited. Next accreditation review: 2027.

## WILDLIFE ECOLOGY, B.S.

Students in the wildlife ecology program learn about species ecology, habitat management, monitoring techniques, and conservation through courses that are based in the natural sciences. Wildlife ecologists study

wild animals and their interactions with people. Working largely outdoors, they manage and conserve wildlife populations and their habitats, aiming to meet the complex needs of wildlife in a human-dominated world.

The Department of Wildlife Ecology was the first wildlife program in an American university. Students learn through a mix of classroom, laboratory, and field instruction. They have flexibility to customize their learning experience within one of two tracks: natural sciences and natural resources. Students can work toward substantively completing requirements for being recognized as an Associate Wildlife Biologist by The Wildlife Society (<https://wildlife.org/learn/professional-development-certification/certification-programs/>), a professional organization, if they choose to.

Wildlife ecology graduates work in public resource management agencies, educational institutions, private industry, and non-governmental organizations such as the National Wildlife Federation and The Nature Conservancy. Students in the wildlife ecology major are also well prepared to pursue advanced degrees in wildlife and related fields or veterinary medicine.

### Learn through hands-on, real world experiences

Wildlife ecology students learn in many field and lab courses, including classes that focus on wildlife management, reptiles, amphibians, birds, and mammals. They can also take part in a summer field course in northern Wisconsin, numerous internships, and research opportunities.

### Build community and networks

Students can join the Student Chapter of the Wildlife Society and the Audubon Society, UW-Madison. Members of the Wildlife Society work with elementary school students, volunteer for numerous projects, and send a competitive team to the Quiz Bowl at the Wildlife Society annual meeting.

### Customize a path of study

Students learn through a mix of classroom, laboratory, and field instruction. They have flexibility to customize their learning experience by selecting from a variety of courses in consultation with their advisor. Courses include options in the natural sciences, as well as coursework that meets educational requirements for certification as a wildlife biologist by The Wildlife Society.

### Make a strong start

Students can take an introductory course that gives students an orientation to wildlife ecology and introduces them to the major and professions within the field of wildlife management and conservation.

### Gain global perspective

Wildlife ecology students are encouraged to participate in a study abroad experience. The program also offers an international class focused on the extinction of species (meeting the CALS International Studies Requirement), as well as a study abroad experience in Mexico. Students can explore studying abroad as a Wildlife Ecology major utilizing the Wildlife Ecology Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW-Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

## COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Complete one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
Complete one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Complete one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Complete one of the following options:		10
Option 1 (recommended):		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
Option 2:		

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130

Animal Biology and Animal Biology Laboratory and General Botany

### Option 3:

BIOCORE 383 & BIOCORE 384 & BIOCORE 485 & BIOCORE 486

Cellular Biology and Cellular Biology Laboratory and Principles of Physiology and Principles of Physiology Laboratory

### Core

#### *Wildlife Ecology and Management*

F&W ECOL 101	Orientation to Wildlife Ecology (Counts for CALS First Year Seminar)	1
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4
F&W ECOL 318 or BOTANY/ F&W ECOL/ ZOOLOGY 460	Principles of Wildlife Ecology General Ecology	3

F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 561	Wildlife Management Techniques	3
F&W ECOL 655	Animal Population Dynamics	3

#### *Plant Taxonomy*

BOTANY 400 or BOTANY 401	Plant Systematics Vascular Flora of Wisconsin	4
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#### *Evolution/Genetics*

Complete one of the following:		3-5
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
GENETICS 466	Principles of Genetics	
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory <sup>1</sup>	

#### *Vertebrate Taxonomy and Natural History*

Complete one of the following:		5-6
ZOOLOGY/ AN SCI/ F&W ECOL 520 & ZOOLOGY/ AN SCI/ F&W ECOL 521	Ornithology and Birds of Southern Wisconsin	
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	

### Major Electives

Complete 15 credits from across at least 3 different categories (see course list below):	15
Physical Science	
Wildlife Resources and Technical Skills	
Anatomy/Physiology/Disease	

Conservation
Forestry/Botany
Ecosystem Ecology
Policy, Administration, and Law
Social Aspects of Natural Resources Management
<b>Capstone</b>
Complete one of the following: 3
F&W ECOL 577 Complexity and Conservation of White-tailed Deer
F&W ECOL 599 Wildlife Research Capstone

**Total Credits 69-74**

1

Only allowed for students who completed the rest of the Biocore curriculum listed under Biology.

There may be additional requirements for students seeking Wildlife Biologist Certification through The Wildlife Society (TWS). Please refer to TWS website for current requirements: <https://wildlife.org/learn/professional-development-certification/certification-programs/>

## MAJOR ELECTIVES

Code	Title	Credits
<i>Physical Science</i>		
CHEM 104	General Chemistry II	5
CHEM 109	Advanced General Chemistry	5
PHYSICS 103	General Physics	4
PHYSICS 104	General Physics	4
PHYSICS 201	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
SOIL SCI 301	General Soil Science	3
<i>Wildlife Resources and Technical Skills</i>		
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL 404	Wildlife Damage Management	3
F&W ECOL 424	Wildlife Ecology Summer Field Practicum	2
F&W ECOL 658	Forest Resources Practicum	3
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
LAND ARC 668	Restoration Ecology	3
ZOOLOGY 405	Introduction to Museum Studies in the Natural Sciences	2-3
<i>Anatomy/Physiology/Disease</i>		
ANAT&PHY 335	Physiology	5
AN SCI/DY SCI 373	Animal Physiology	3

F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
ENTOM/M M & I/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
<i>Conservation</i>		
ANTHRO 668	Primate Conservation	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species (Meets CALS International Studies Requirement)	3
F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
<i>Forestry/Botany</i>		
F&W ECOL/ ENVIR ST 100	Forests of the World (Meets CALS International Studies Requirement)	3
F&W ECOL 300	Forest Biometry	4
F&W ECOL 305	Forest Operations	2
F&W ECOL/ BOTANY 402	Dendrology	2
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 448	Disturbance Ecology	3
F&W ECOL 449	Disturbance Ecology Lab (I): Herbivores and Fire	1
F&W ECOL 450	Disturbance Ecology Lab (II): Forest Pathogens	1
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin	4
F&W ECOL 550	Forest Ecology	3
<i>Ecosystem Ecology</i>		
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
<i>Policy, Administration, and Law</i>		
ENVIR ST/ GEOG 337	Nature, Power and Society	3
ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4

ENVR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
F&W ECOL/ ENVR ST 515	Natural Resources Policy	3
<i>Social Aspects of Natural Resource Management</i>		
A A E/ECON/ ENVR ST 343	Environmental Economics	3-4
AMER IND/ ENVR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVR ST/ GEOG 345	Managing Nature in Native North America	3
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3
AMER IND/ ENVR ST 341	Indigenous Environmental Communicators	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Define and explain basic principles in biological sciences and major concepts in wildlife ecology including, population ecology, organismal biology, plant ecology/taxonomy, and genetics/evolution.
2. Explain and discuss principles of wildlife management including natural resource legislation, policy, and applications.
3. Explain and apply the scientific methods including designing and conducting experiments and testing hypotheses.

4. Explain and demonstrate techniques for collection of data in laboratory and field settings, keep accurate records, and analyze data to address hypotheses.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form. Provide opportunity to develop these communication skills.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

The four-year plan is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and Course Search & Enroll to determine your program of study. Your program of study will likely look different from this sample four-year plan. Consult with your advisor to determine the best path for you.

### SAMPLE WILDLIFE ECOLOGY FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
F&W ECOL 101 (Counts for CALS First Year Seminar)		1 F&W ECOL 379	3
F&W ECOL 318	3	MATH 113 <sup>1</sup>	3
MATH 112 <sup>1</sup>		3 Humanities	3
Communication Part A		3 CHEM 103	4
Humanities		3 Elective	2
		<b>13</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
F&W ECOL 561		3 ZOOLOGY/BIOLOGY/BOTANY 152 <sup>2</sup>	5
ZOOLOGY/BIOLOGY/BOTANY 151 <sup>2</sup>		5 BOTANY 401	4
Social Science		3 STAT 301 or 371	3
Electives		5 Ethnic Studies	3
		<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
CALS International Study Requirement		3 F&W ECOL 306	4
Evolution/Genetics Requirement		3 F&W ECOL/AN SCI/ZOOLOGY 520 & F&W ECOL/AN SCI/ZOOLOGY 521	6
Major Electives		6 Electives	6
Elective		4	
		<b>16</b>	<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Major Electives		6 F&W ECOL 655	3
Electives		6 Major Elective	3



F&W ECOL 577 or 599	3 Electives	9
	<b>15</b>	<b>15</b>

**Total Credits 121**

1

MATH course dependent on placement score and transfer credit evaluation.

2

BIOLOGY/BOTANY/ZOOLOGY 151 & BIOLOGY/BOTANY/ZOOLOGY 152 are recommended but students may complete BIOLOGY/ZOOLOGY 101, BIOLOGY/ZOOLOGY 102, & BIOLOGY/BOTANY 130 to satisfy the introductory biology requirement.

**ADVISING AND CAREERS****ADVISING**

Students are assigned an academic advisor and a faculty advisor in the department. Professional academic advisors help students plan their coursework and identify opportunities to get involved in department and campus activities. Faculty advise students on career planning and challenge students to think critically.

**CAREER OPPORTUNITIES**

Undergraduates in wildlife ecology prepare for a variety of careers. They can become wildlife biologists, habitat restoration technicians, attorneys, wildlife enforcement officers, researchers, and more. Students are also well prepared to pursue advanced degrees in wildlife and related fields, including veterinary medicine. Graduates of the program work for many organizations, such as state departments of natural resources, the U.S. Fish and Wildlife Service, the Chicago Zoological Society, and The Nature Conservancy.

**PEOPLE****PROFESSORS**

Bowe, Scott  
Burivalova, Zuzana  
Chen, Min  
Drake, David  
Karasov, William  
Hua, Jessica  
Kruger, Eric (chair)  
Ozdogan, Mutlu  
Pauli, Jonathan  
Peery, M. Zach  
Pidgeon, Anna  
Radeloff, Volker  
Rickenbach, Mark  
Rissman, Adena  
Townsend, Philip  
Van Deelen, Timothy  
Zuckerberg, Benjamin

**AFFILIATED FACULTY**

Balster, Nick (Soil Science)  
Marin-Spiotta, Erika (Geography)

**INSTRUCTORS AND TEACHING FACULTY**

Berkelman, James  
Nack, Jamie  
Meindl, George

**ADVISOR**

Hochmuth, Allee

For faculty and staff profiles, visit <https://forestandwildlifeecology.wisc.edu/people/faculty-and-staff/>

**WISCONSIN EXPERIENCE****Internships**

Many wildlife ecology students include internships and professional work experiences in their studies. Students are encouraged to talk to their advisor about internship possibilities. See the Internship & Job Resources (<https://forestandwildlifeecology.wisc.edu/academics/undergraduate-programs/internship-job-resources/>) page for more information.

**Research experience**

Wildlife ecology undergraduates are encouraged to get involved in field- or lab-based research with a professor. In their research experiences, students gain skills in a variety of areas including measuring habitats, reviewing literature, identifying species, deploying wildlife cameras, and more.

**Student organizations**

Students can join the Student Chapter of the Wildlife Society and the Audubon Society, UW-Madison. Members of the Wildlife Society can work with elementary school students and volunteer for numerous projects.

**Competitive teams**

Wildlife ecology undergraduates can join a team that competes at the Quiz Bowl at the Wildlife Society annual meeting.

**Global engagement**

Wildlife ecology students are encouraged to participate in a study abroad experience. The program offers an experience in Mexico focused on wildlife ecology, as well as an international course focused on the extinction of species that meets the CALS International Studies requirement. Students can find more information about study abroad on the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/international-programs/study-abroad-advising/>).

**Community engagement and volunteering**

The Student Chapter of the Wildlife Society organizes several volunteer activities, including spring and summer frog surveys, summer fawn searches, and roadside clean-up. Students also have opportunities to work with elementary school students and give presentations about wildlife.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## CERTIFICATION/LICENSURE

## CERTIFICATION/LICENSURE

## RESOURCES AND SCHOLARSHIPS

Department scholarships are available to wildlife ecology students and fellowships are available to support research work with a professor. Students across the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## GENETICS

This program explores how genetic material shapes life – from the cellular level to the population level – and prepares students to solve some of society’s most pressing challenges in the fields of medicine, biotechnology, biomedical research, and agriculture. Genetics and genomics are at the heart of many important issues of the day, including genetic testing, genetic therapies, genome sequencing, evolution, and the genetic engineering of humans, plants, and animals.

Students who major in genetics and genomics take courses in biology, chemistry, physics, statistics, and introductory genetics, and then delve into specialized genetics topics focused on humans, plants, populations, cancer, biological development, neurology, and epigenetics. They gain laboratory research experiences by taking laboratory courses and conducting independent research projects in faculty labs.

The genetics and genomics major provides a solid foundation for careers in medicine, public health, research, life sciences, agriculture, biotechnology, education, law, and science communication – in the private, public, and non-profit sectors. Many students choose to pursue graduate and professional studies, including research-focused PhD programs, medical school, veterinary school, and law school. Alumni go on to be physicians, medical directors, genetic counselors, epidemiologists, research scientists, data analysts, plant breeders, veterinarians, professors, teachers, attorneys, and science writers.

### Learn through hands-on, real-world experiences

All genetics and genomics majors participate in hands-on research, which equips them with real-world skills valued by graduate and professional schools and employers. In addition to laboratory coursework, students have numerous opportunities to conduct independent research in faculty labs, where they receive mentoring from faculty, staff, and graduate students.

### Build community and networks

Students get to know faculty and instructors through small classes; and they can grow their networks by getting involved in student organizations or participating in undergraduate research experiences mentored by faculty. The Undergraduate Genetics Association (<https://win.wisc.edu/organization/UGA/>), a club for students interested in genetics and genomics, provides professional development, volunteer, and social opportunities for members. The Pre-Genetic Counseling Organization (<https://win.wisc.edu/organization/pregeneticcounseling/>), a club for students interested in genetic counseling, specializes in bringing

counseling opportunities and information to undergraduates. Students can also participate in the Genetics and Genomics Peer Mentorship Program, which connects incoming students with those further along in their college careers.

### Make a strong start

A course for first-year students introduces new majors to faculty researchers and fellow classmates, and makes campus connections. It also prepares them to work in research labs, teaches study skills needed to succeed in college, and provides peer networking opportunities.

### Customize a path of study

Students have many options to pursue coursework that meets their career goals. They also may pursue Honors in Research, an option that includes conducting hands-on research in campus labs.

### Gain global perspective

Majors can choose from a variety of study abroad programs including short-term field experiences, summer research opportunities and semester-long exchange programs at top universities around the world. A study abroad program in Costa Rica specifically tailored for genetics and genomics majors is typically offered each spring and is led by genetics program faculty from UW–Madison. Students can explore studying abroad as a Genetics and Genomics major by utilizing the Genetics and Genomics Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## DEGREES/MAJORS/CERTIFICATES

- Genetics and Genomics, B.S. (p. 178)

## PEOPLE

### PROFESSORS

Pelegri, Francisco (chair); Brunkard, Jake; Chang, Qiang; Drummond-Barbosa, Daniela; Gasch, Audrey; Hittinger, Chris; Ikeda, Aki; Masson, Patrick; Payseur, Bret; Perna, Nicole; Pool, John; Prolla, Tom; Richardson, Claire; Schroedi, Steven; Schwartz, David; Sharp, Nathaniel; Skop, Ahna; Wassarman, David; Werling, Donna; Yin, Jerry; Zhong, Xuehua

### TEACHING FACULTY

Loewen, Carin; Tilmann, Kit; Vermillion Kalmon, Katie; Zumwalde, Nicholas

### ADVISORS

Loewen, Carin; Minor, Claire; Tilmann, Kit; Vermillion Kalmon, Katie; Zumwalde, Nicholas

### GRADUATE PROGRAM MANAGER

Reck, Martha

## GENETICS AND GENOMICS, B.S.

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## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and

Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

## COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
	CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

## MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Complete one of the following:		5-10
	MATH 221 Calculus and Analytic Geometry I	
	MATH 171 Calculus with Algebra and Trigonometry I & MATH 217 Calculus with Algebra and Trigonometry II	
Complete one of the following:		3
	STAT 371 Introductory Applied Statistics for the Life Sciences	
	STAT 301 Introduction to Statistical Methods	
<b>Chemistry</b>		
Complete one of the following:		5-9
	CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II	
	CHEM 109 Advanced General Chemistry	
	CHEM 115 Chemical Principles I & CHEM 116 and Chemical Principles II	
Complete one of the following:		3-6
	CHEM 341 Elementary Organic Chemistry	
	CHEM 343 Organic Chemistry I & CHEM 345 and Organic Chemistry II <sup>1</sup>	
<b>Physics</b>		
Complete one of the following:		10

PHYSICS 103 & PHYSICS 104	General Physics and General Physics (recommended)
PHYSICS 201 & PHYSICS 202	General Physics and General Physics
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)

### Biology

Complete one of the following options: 10

Option 1:

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)
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Option 2:

BOTANY/ BIOLOGY 130	General Botany
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory

Option 3:

BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology
Select two of the following labs:	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 486	Principles of Physiology Laboratory

### Core Requirements

BIOCHEM 501	Introduction to Biochemistry <sup>2</sup>	3
	or BIOCHEM 507 General Biochemistry I	

Complete one of the following options: 6

Option 1:

GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2 (preferred)
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Option 2:

GENETICS 466	Principles of Genetics (consult advisor (467 & 468 preferred)) additional 3 credit Genetics depth course (see course list below) <sup>3</sup>
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Select 2 credits from the following: 2

GENETICS 545	Genetics Laboratory
GENETICS 299	Independent Study <sup>4</sup>
GENETICS 699	Special Problems <sup>4</sup>
GENETICS 681	Senior Honors Thesis
GENETICS 682	Senior Honors Thesis
GENETICS 399	Coordinative Internship/ Cooperative Education

**Genetics Depth 9**

See course list below

**Genetics Breadth 6**

See course list below

### Capstone

Select one of the following: 3-9

Option 1:

GENETICS/  
BIOLOGY 522    Communicating Evolutionary  
Biology (Three-credit version only) <sup>5</sup>

Option 2:

GENETICS 527    Developmental Genetics for  
Conservation and Regeneration  
(offered in fall semester) <sup>5</sup>

Option 3:

GENETICS 566    Advanced Genetics (offered in  
spring semester)

Option 4:

GENETICS 564    Genomics and Proteomics (offered  
in spring semester) <sup>5</sup>

Option 5 (must be taken concurrently):

GENETICS 699    Special Problems (offered in fall  
semester)

GENETICS 567    Companion Research Seminar  
(offered in fall semester)

Option 6 (must be taken concurrently):

GENETICS 681    Senior Honors Thesis

GENETICS 682    Senior Honors Thesis

GENETICS 567    Companion Research Seminar  
(offered in fall semester)

**Total Credits** **65-83**

1

If CHEM 343 is taken, it must be taken as a part of CHEM 343 & CHEM 345, the latter of which counts as a Genetics Breadth requirement.

2

If BIOCHEM 507 is taken, it must be taken as a part of BIOCHEM 507 & BIOCHEM 508, the latter of which counts as a Genetics Breadth requirement.

3

Additional Depth course will not count toward the 9-credit Genetics Depth requirement.

4

Consult with your advisor if genetics-related research will be performed in a department other than Genetics.

5

May count for Genetics Depth or Capstone, but not both.

## GENETICS DEPTH & BREADTH COURSES

### DEPTH

Code	Title	Credits
GENETICS 520	Neurogenetics	3
GENETICS/ BIOLOGY 522	Communicating Evolutionary Biology	2-3
GENETICS 525	Epigenetics	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3

GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
GENETICS 548	The Genomic Revolution	3
GENETICS/HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS 564	Genomics and Proteomics	3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS 566	Advanced Genetics	3
GENETICS 605	Clinical Cases in Medical Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
GENETICS/ CHEM 626	Genomic Science	2
GENETICS 627	Animal Developmental Genetics	3
GENETICS/ BIOCHEM 631	Plant Genetics and Development	3
GENETICS 633	Population Genetics	3
GENETICS/ BOTANY/M M & I/ PL PATH 655	Biology and Genetics of Fungi	3
GENETICS/ MD GENET 662	Cancer Genetics	3
GENETICS/ MD GENET 677	Advanced Topics in Genetics	1-3

### BREADTH

Code	Title	Credits
<b>Physical Science:</b>		
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Integrative Biology:</b>		
BIOCORE 485	Principles of Physiology	3
BIOCORE 587	Biological Interactions	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology	1
MICROBIO 632	Industrial Microbiology/ Biotechnology	2

M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
PL PATH 622	Plant-Bacterial Interactions	2-3
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses	3
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3

**Agricultural Ecosystems:**

AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ HORT 502	Techniques of Plant Breeding	1
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
HORT 500		3
PL PATH/BOTANY/ ENTOM 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3

**Computational Biology:**

B M I/ COMP SCI 576	Introduction to Bioinformatics	3
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## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Analyze the transmission of genes and chromosomes between cells during cell division and within pedigrees over generations.
2. Demonstrate a deep understanding of how information encoded in DNA can be mutated, epigenetically modified, transcribed into RNA, and translated for protein production, enabling this information to orchestrate the activities of cells singly or collectively throughout development in multicellular organisms.
3. Predict the impact of the forces of mutation, natural selection, chance, and genetic recombination on the amount of genetic variation in populations at the DNA and phenotypic levels using quantitative models.
4. Formulate research questions about the genetic control of biological processes and design experiments to answer these questions using appropriate genetic tools including model organisms.
5. Demonstrate team-work, interpersonal and problem-solving skills to address societal, ethical and scientific issues related to genetics, and communicate their findings through written, oral and multi-media reports.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE GENETICS AND GENOMICS FOUR YEAR PLAN

**First Year**

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
MATH 221 (or math placement)	5	Elective	3
GENETICS 155 (CALs First Year Seminar)	1	COMM A Course (if needed)	3
Humanities	3	Ethnic Studies	3
<b>13-14</b>		<b>14</b>	

**Second Year**

Fall	Credits	Spring	Credits
CHEM 343 or 341	3	CHEM 345 (if CHEM 343 completed)	3
ZOOLOGY/BIOLOGY/ BOTANY 151 <sup>1</sup>	5	ZOOLOGY/BIOLOGY/ BOTANY 152 <sup>1</sup>	5
STAT 371 or 301	3	GENETICS 299 (Independent Research)	1-3
Social Sciences	3	Electives	5
<b>14</b>		<b>14-16</b>	

**Third Year**

Fall	Credits	Spring	Credits
PHYSICS 103, 207, or 201 <sup>2</sup>	4-5	PHYSICS 104, 208, or 202 <sup>2</sup>	4-5
GENETICS 467	3	GENETICS 468	3
BIOCHEM 501 or 507	3	BIOCHEM 508 (or elective)	3-4

CALS International Studies	3	Genetics Depth/Breadth	6
<b>13-14</b>		<b>16-18</b>	
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Genetics Depth/Breadth	6	Genetics Depth/Breadth	3
Elective (research or thesis recommended) <sup>3</sup>	2-3	Elective (research or thesis recommended) <sup>3</sup>	2-3
Humanities	3	Genetics Capstone	3
Electives	6	Electives	6
<b>17-18</b>		<b>14-15</b>	
<b>Total Credits 115-123</b>			

Students must complete at least 120 total credits to be eligible for graduation.

1

Instead of ZOOLOGY/BIOLOGY/BOTANY 151 and ZOOLOGY/BIOLOGY/BOTANY 152, students can take either BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102, or BIOCORE 381, BIOCORE 383 & two labs (BIOCORE 382, BIOCORE 384, or BIOCORE 486).

2

Physics could be taken in Second Year (consult your advisor).

3

If in CALS Honors in Research.

Notes

- First-year students are recommended to take GENETICS 155 to fulfill the CALS first year seminar requirement.
- Study Abroad is an enriching experience. Check with your advisor on how you can fulfill your curriculum and study abroad.

## ADVISING AND CAREERS

### Advising

Each student is assigned a professional academic advisor who works to understand student goals and helps to craft a path that best suits their needs. Additionally, students receive professional and scientific mentorship through interactions with faculty, staff, and graduate students.

### Career opportunities

Alumni go on to a wide variety of careers in medicine, public health, research, life sciences, biotechnology, education, law, and science communication – in the private, public, and non-profit sectors. They hold professional positions as physicians, medical directors, genetic counselors, epidemiologists, research scientists, data analysts, plant breeders, veterinarians, professors, teachers, attorneys, and science writers.

## PEOPLE

### PROFESSORS

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## ADVISORS

Loewen, Carin; Minor, Claire; Tilmann, Kit; Vermillion Kalmon, Katie; Zumwalde, Nicholas

## GRADUATE PROGRAM MANAGER

Reck, Martha

## WISCONSIN EXPERIENCE

### Research experience

Many genetics and genomics majors conduct research in a faculty-led research lab where they receive direct mentorship from faculty, staff, and graduate students. With hundreds of faculty members on campus using genetic strategies in their labs, students have many research options.

### Student organizations

The Undergraduate Genetics Association (<https://win.wisc.edu/organization/UGA/>), a club for all students interested in genetics and genomics, brings in guest speakers to discuss their research and career paths; provides guidance on finding campus research and internship opportunities; holds informational sessions on jobs and careers; and hosts networking, volunteer, and social events. The Pre-Genetic Counseling Organization (<https://win.wisc.edu/organization/pregeneticcounseling/>), for students interested in genetic counseling, hosts talks by genetic counselors, clinicians, and ethicists; informs students of advocacy opportunities; provides training in practical counseling skills; and offers networking, volunteer, outreach, and social events.

### Global engagement

Genetics and genomics majors participate in study abroad programs in countries around the world, including in China, Costa Rica, England, Germany, Mexico, New Zealand, and Uganda. Students can find more information on the CALS study abroad advising page (<https://cals.wisc.edu/academics/undergraduate-students/studyabroad/study-abroad-advising/>).

### Community engagement and volunteering

Students have opportunities to engage in volunteer activities through the Undergraduate Genetics Association, including participating in campus' annual Darwin Day (<https://evolution.wisc.edu/darwin-day/>) science outreach event. The Pre-Genetic Counseling Organization also offers outreach opportunities.

### Internships

Majors are encouraged to participate in internships. With a large biotech industry presence in the Madison area, there are many opportunities for students to participate in genetically-relevant internship experiences. Students can use these internship opportunities to complete the research requirement for the genetics and genomics major.

### A rich history or genetics

Established in 1910, the UW–Madison Department of Genetics is among the oldest genetics departments in the nation and is highly regarded for its research contributions in diverse areas of the field. Many of the greatest discoveries in genetics and genomics took place at UW–Madison, including cracking the genetic code, sequencing one of the first bacterial genomes, synthesizing the first gene, and developing targeted gene knockout methods in mice.

## RESOURCES AND SCHOLARSHIPS

### Scholarships

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

The genetics department offers a Genetics and Genomics Excellence in Research Award of up to \$6,000 to support undergraduate research in genetics- and genomics-related areas. There are also scholarships available for students who participate in certain genetics-focused study abroad programs.

### Resources

The Center for Pre-Health Advising (<https://prehealth.wisc.edu/>) provides information about health careers including pre-med, pre-nursing, pre-vet, and pre-physical therapy, and offers course suggestions.

## HORTICULTURE

The Department of Horticulture at the University of Wisconsin–Madison is one of the four original departments of the College of Agricultural and Life Sciences and was founded in 1889. The department provides programs that are focused on fundamental studies of plant biology, crop production, and utilization of horticultural crops. It also seeks to provide educational opportunities for the pursuit of careers in horticulture, strengthen the competitive position of Wisconsin's horticulture industry, and increase the use of plants for environmental improvement and as a source of personal enrichment. The work of department faculty, staff, and students has made substantial impacts in the state and nation for over 125 years and continues to do so.

The department prides itself on cutting-edge research focusing on horticultural plants, solving problems for our horticultural industry partners and farmers, helping students gain key experiences in research and outreach during their degree programs, and serving both the State of Wisconsin and the broader scientific community through the generation of new knowledge, techniques, and discoveries that can benefit society.

The department maintains a vibrant undergraduate major. Innovative ideas have been generated from among our undergraduates, including the Campus Food Shed, a program to redistribute unused produce from nearby farms to the campus community free of charge. Instruction is offered in all of the primary areas of horticulture and additional coursework is available in a number of subjects including molecular biology and bioinformatics. Approximately \$25,000 in scholarship funds are available annually to undergraduate students in the department each year. The department's graduate program offers both M.S. and Ph.D. degrees in a variety of specialties. Many graduate students advised by horticulture faculty also pursue graduate degrees in programs such as plant breeding and plant genetics, cell and molecular biology, and agroecology. The

department has also recently created a new M.S. program that has an emphasis in organic and sustainable production. The department offers some unique international opportunities in Costa Rica and other Central American countries that focus on tropical horticulture.

The Department of Horticulture is home to a number of successful outreach programs that serve the citizens, public sector, and businesses of the State of Wisconsin. These include the Nutrient and Pest Management Program, the Integrated Pest and Crop Management Program, the Crop Diagnostic Training program, the IR-4 program, the Master Gardener Program, and the Allen Centennial Gardens. In addition to these activities, faculty and staff are active in field days, Extension programs, courses, seminars, and webinars, and author newsletters and other media that are distributed statewide.

## DEGREES/MAJORS/CERTIFICATES

- Horticulture, B.S. (p. 185)

## PEOPLE

### PROFESSORS

Bamberg, Colquhoun, Goldman, Krysan (chair), Simon, Weng, Zalapa

### ASSOCIATE PROFESSORS

Atucha, Bethke, Dawson, Endelman, Jull

### ASSISTANT PROFESSORS

Ellison, Kovaleski, Wang

### USDA SCIENTIST

Mura

### INSTRUCTIONAL STAFF

Calderon, Luiken, Oosterwyk

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

The Department of Horticulture offers several departmental scholarships (<https://horticulture.wisc.edu/academics/undergraduate-program/scholarships-and-awards/>) that students can apply for through the CALS Scholarship Application (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/>). The application opens at the beginning of November and remains open until the beginning of February each academic year. Students only need to fill out one single application to be considered for all CALS scholarships.

### FACILITIES

Several important supporting facilities are associated with the Department of Horticulture, including:

- Allen Centennial Garden (<https://allencentennialgarden.org/>)
- D.C. Smith Greenhouse (<http://dcsmithgreenhouse.cals.wisc.edu/>)
- Arlington Horticulture Farms (<http://arlington.ars.wisc.edu/>)
- U.S. Potato Genebank (<https://www.ars-grin.gov/nr6/>)



- O.J. Noer Turfgrass Center (<http://ojnoer.ars.wisc.edu/>)
- Longenecker Gardens (<https://arboretum.wisc.edu/>)

## HORTICULTURE, B.S.

Horticulturists work to enrich our lives by integrating and applying plant science, environmental science, molecular biology, biotechnology, genetics, physiology, and management. Specifically, horticultural science deals with the development, production, growth, distribution, and use of fruits, vegetables, greenhouse crops, ornamentals, and specialty plant crops (used for flavoring and medicine). Horticultural science is one of the most diverse biological sciences one can study at a university. Not only are the biology and genetics of crop plants interesting, but the application of this knowledge is equally important in a myriad of situations. Undergraduate horticulture majors will obtain specialized training in greenhouse/field management and the production and use of fruits, vegetables, nuts, and herbaceous/woody ornamentals through the bachelor of science degree program.

In addition to obtaining a job with an undergraduate degree in horticulture, the major provides an excellent background for graduate study in the field of plant sciences. Areas of graduate study include plant breeding and plant genetics, horticulture, agronomy, plant pathology, or other related fields such as biology, environmental science, natural resource management, agroecology, and genetics.

Students with either undergraduate or graduate degrees in horticulture have a variety of career opportunities. Recent studies show that there are more jobs in agriculture in the US than there are students graduating with agricultural bachelor of science degrees to fill them. As our world grapples with the need to contribute science-based solutions to feeding 9 billion people by 2050, students trained in the agricultural and horticultural sciences will be called on to contribute.

Horticulture graduates may find opportunities to develop higher yielding crops or crops that can withstand more stressful growing conditions. Others may find opportunities working on improving qualities such as flavor, appearance, texture, and postharvest shelf life for a wide range of horticultural commodities from fruits to vegetables to flowers. Sustainable production is an area of growth where horticultural expertise can make a contribution.

The horticulture degree serves as excellent preparation for careers in food production, plant nurseries, community-supported agriculture (CSA), public gardens, greenhouse production, teaching, public parks, vegetable production, urban agriculture, extension- and community-based educational work, work in research labs, and the health sciences. In addition, many horticultural science majors go on to work in public sector jobs including city and state positions with the Department of Natural Resources, the Wisconsin Department of Agriculture, and the University of Wisconsin Division of Extension. Students with degrees in horticulture also work in hospitals (horticultural therapy), aerospace (food and recycling in space labs), and zoos (managing environments for animals and visitors). Although the career opportunities are numerous, horticulture students have a common desire to work intensively with plants to improve our environment and our health.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CAL S). For information about

becoming a CAL S first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CAL S must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CAL S B.S. DEGREE PROGRAMS

Code	Title	Credits
	Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.	

Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.

First Year Seminar (p. 46)	1
International Studies (p. 47)	3
Physical Science Fundamentals	4-5
CHEM 103 General Chemistry I or CHEM 108 Chemistry in Our World or CHEM 109 Advanced General Chemistry	
Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

## MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		3-5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II <sup>1</sup>	
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
COMP SCI 300	Programming II	
<b>Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Biology</b>		
Select one of the following options:		10-12
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
ZOOLOGY/ BIOLOGY 101	Animal Biology	

ZOOLOGY/ BIOLOGY 102 Animal Biology Laboratory

### Option 2:

BIOLOGY/ BOTANY/ ZOOLOGY 151 Introductory Biology

BIOLOGY/ BOTANY/ ZOOLOGY 152 Introductory Biology

### Option 3:

BIOCORE 381 Evolution, Ecology, and Genetics

BIOCORE 383 Cellular Biology

### And select two of the following:

BIOCORE 382 Evolution, Ecology, and Genetics Laboratory

BIOCORE 384 Cellular Biology Laboratory

BIOCORE 486 Principles of Physiology Laboratory

### Agricultural Breadth

ENTOM/ ZOOLOGY 302 Introduction to Entomology 3-4

or ENTOM 351 Principles of Economic Entomology

GENETICS 466 Principles of Genetics 3

Select one of the following: 3-4

BOTANY 300 Plant Anatomy

BOTANY 305 Plant Morphology and Evolution

BOTANY 500 Plant Physiology

PL PATH 300 Introduction to Plant Pathology 4

SOIL SCI 301 & SOIL SCI 302 General Soil Science and Meet Your Soil: Soil Analysis and Interpretation Laboratory 4

### Horticultural Core

HORT 120 Survey of Horticulture 3

HORT 121 Horticulture Colloquium 1

HORT 227 Propagation of Horticultural Plants 3

HORT 320 Environment of Horticultural Plants 3

HORT/AGRONOMY/ SOIL SCI 326 Plant Nutrition Management 3

Select one of the following: 3-4

HORT 334 & HORT 333 Greenhouse Cultivation and Survey of Controlled Environment Food Production

HORT 334 & HORT 335 Greenhouse Cultivation and Greenhouse Cultivation Lab

Select three of the following: 8-11

HORT 234 Ornamental Plants

HORT/ PL PATH 261 & HORT/ PL PATH 262 Sustainable Turfgrass Use and Management and Turfgrass Management Laboratory

HORT/ LAND ARC 263 Landscape Plants I

HORT 345 Fruit Crop Production (alternate years)<sup>2</sup>

HORT 370 World Vegetable Crops

AGRONOMY 375	Special Topics (Crop, Seed, and Weed ID)	
or HORT/AGRONOMY 375	Plant Breeding and Biotechnology	

**Electives**

Select 5 elective credits (see list below) **5**

**Capstone**

Students can complete a pre-approved course or an independent study or internship. Independent study and internship require individual pre-approval from the program, and students should talk to the Horticulture advisor to learn more about the process and forms.

*Pre-approved course options:*

HORT/AGRONOMY 376 & HORT 378	Tropical Horticultural Systems and Tropical Horticultural Systems International Field Study	
PL PATH 315	Plant Microbiomes	

*Independent Study or Internship options (require individual pre-approval):*

HORT 399	Coordinative Internship/ Cooperative Education	
HORT 699	Special Problems	
PL PATH 499	Independent Study in Organic Agriculture	

**Total Credits 69-84**

1

If MATH 171 is taken, MATH 217 must also be taken.

2

Alternate years.

**ELECTIVE COURSES**

Students may not double count courses within the major requirements (Agricultural Breadth, Horticultural Core, Electives, Capstone)

Code	Title	Credits
------	-------	---------

**Business and Economics**

A A E 215	Introduction to Agricultural and Applied Economics	4
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E 319	The International Agricultural Economy	3
A A E 320	Agricultural Systems Management	3
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3

**Ecology, Conservation, and the Environment**

BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
F&W ECOL/ C&E SOC/SOC 248	Environment, Natural Resources, and Society	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin	4
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ BOTANY/ENVIR ST/ ZOOLOGY 651	Conservation Biology	3
GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOSCI/ ENVIR ST 106	Environmental Geology	3
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

**Food, Health and Human Well-being:**

A A E/C&E SOC/ SOC 340	Issues in Food Systems	3-4
AGRONOMY/ ENTOM/ NUTR SCI 203	Introduction to Global Health	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY/A A E/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 377	Global Food Production and Health	3
C&E SOC/SOC 222	Food, Culture, and Society	3
C&E SOC/SOC 650	Sociology of Agriculture	3
FOOD SCI/ AN SCI 321	Food Laws and Regulations	1
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
HORT 345	Fruit Crop Production	3
HORT 350	Plants and Human Wellbeing	2

HORT/A A E/ AGRONOMY/ PL PATH 367	Introduction to Organic Agriculture: Production, Markets, and Policy	3	AGRONOMY/ C&E SOC/ MED HIST/ PHILOS 565	The Ethics of Modern Biotechnology	3
HORT 370	World Vegetable Crops	3	BIOCHEM 501	Introduction to Biochemistry	3
HORT 380	Indigenous Foodways: Food and Seed Sovereignty	2	CHEM 341	Elementary Organic Chemistry	3
NUTR SCI 132	Nutrition Today	3	CHEM 342	Elementary Organic Chemistry Laboratory	1
PL PATH 311	Global Food Security (Food Systems, Sustainability, and Climate Change)	3	CHEM 343	Organic Chemistry I	3
PL PATH 375	Special Topics	1-4	HORT/ AGRONOMY 338	Plant Breeding and Biotechnology	3
<b>Landscape Horticulture</b>			HORT/AGRONOMY/ BOTANY 339	Plant Biotechnology: Principles and Techniques I	4
BSE 243	Operating and Management Principles of Off-Road Vehicles	3	HORT/AGRONOMY/ BOTANY 340	Plant Cell Culture and Genetic Engineering	3
BSE 301	Land Information Management	3	HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	2
F&W ECOL 375	Special Topics (Tree Risk Assessment and Decay Detection)	1-4	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
HORT 234	Ornamental Plants	3	HORT/ AGRONOMY 502	Techniques of Plant Breeding	1
HORT/PL PATH 261	Sustainable Turfgrass Use and Management	2	HORT/ GENETICS 550	Molecular Approaches for Potential Crop Improvement	3
HORT/PL PATH 262	Turfgrass Management Laboratory	1	HIST SCI 202	The Making of Modern Science	3
HORT/ LAND ARC 263	Landscape Plants I	3	<b>Public Policy and Environmental Ethics</b>		
HORT/SOIL SCI 332	Turfgrass Nutrient and Water Management	3	C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
HORT 334	Greenhouse Cultivation	2	ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
HORT 335	Greenhouse Cultivation Lab	1	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
LAND ARC 250	Survey of Landscape Architecture Design	3	HORT/HIST SCI 301	(Horti)Cultural Roots: Human Histories of Plants and Science	4
LAND ARC 260	History of Landscape Architecture	3	POLI SCI 272	Introduction to Public Policy	3-4
LAND ARC 211	Shaping the Built Environment	3	POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
<b>Pest Management</b>			<b>Soil Science</b>		
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3	SOIL SCI 305	Field Study of Soil	1
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2	SOIL SCI 321	Soils and Environmental Chemistry	3
PL PATH/ BOTANY 332	Fungi	4	SOIL SCI 322	Physical Principles of Soil and Water Management	3
<b>Plant Biology</b>			SOIL SCI/ PL PATH 323	Soil Biology	3
BOTANY 300	Plant Anatomy	4	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
BOTANY 305	Plant Morphology and Evolution	4	SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
BOTANY 400	Plant Systematics	4	SOIL SCI/ ENVIR ST 575	Assessment of Environmental Impact	3
BOTANY 401	Vascular Flora of Wisconsin	4	<b>Weather and Climate Change</b>		
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ATM OCN 101	Weather and Climate	4
BOTANY 422	Plant Geography	3	ATM OCN/ ENVIR ST/ GEOSCI 102	Climate and Climate Change	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4			
BOTANY 500	Plant Physiology	3-4			
F&W ECOL 415	Tree Physiology	3			
HORT 240	The Science of Cannabis	1			
<b>Plant Breeding, Genetics, and Biotechnology</b>					

ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	2-3
ATM OCN/ ENVIR ST/ GEOG 332	Global Warming: Science and Impacts	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take HORT 289 Honors Independent Study, HORT 681 Senior Honors Thesis and HORT 682 Senior Honors Thesis when completing their thesis project; please see the Honors Program page (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>) for more information. The Department of Horticulture also works collaboratively to strongly support students through the Honors in Research program.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire, integrate and apply knowledge of plant science to horticultural systems.
2. Demonstrate interdisciplinary knowledge and competency in managing horticultural systems.
3. Synthesize knowledge and use insight and creativity to better understand and improve horticultural systems.
4. Appreciate and communicate the diverse impacts of horticulture on people.
5. Demonstrate professionalism and proficiency in skills that relate to horticulture.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE HORTICULTURE FOUR-YEAR PLAN (WITH BOTANY/BIOLOGY 130 IN THE FIRST SEMESTER)

##### First Year

Fall	Credits	Spring	Credits
HORT 120		3 MATH 113	3
HORT 121		1 BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	5
BIOLOGY/BOTANY 130 <sup>1</sup>		5 Ethnic Studies	3
MATH 112		3 Electives	5
COMM A Course		3	
CALS First Year Seminar		1	
		<b>16</b>	<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
HORT 320		3 CHEM 104	5
CHEM 103		4 HORT 227	3
COMM B Course		3 HORT 334 & HORT 335	3
Horticulture Breadth		6 Humanities	3-4
	<b>16</b>		<b>14-15</b>

**Third Year**

Fall	Credits	Spring	Credits
Agricultural Breadth <sup>2</sup>		6 Agricultural Breadth <sup>2</sup>	6
Horticulture Breadth		3 Math / Statistics / Computer Science	3
CALS International Studies <sup>3</sup>		3 Humanities	3-4
Electives		4-5 Elective	3
	<b>16-17</b>		<b>15-16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Agricultural Breadth <sup>2</sup>		3 Agricultural Breadth <sup>2</sup>	3-4
Horticulture Breadth		6 Electives	9
Horticulture Capstone		3	
Social Sciences		3-4	
	<b>15-16</b>		<b>12-13</b>

**Total Credits 120-125**

Students must complete at least 120 total credits to be eligible for graduation.

1

BIOLOGY/BOTANY 130, BIOLOGY/ZOOLOGY 101, and BIOLOGY/ZOOLOGY 102 is the preferred biology track.

2

Please consult with a Horticulture advisor to discuss when specific courses are typically offered.

3

Students can choose to complete the CALS International Studies requirement using HORT 370 or HORT/AGRONOMY 376 & HORT 378, which also fulfill Horticulture major requirements.

## SAMPLE HORTICULTURE FOUR-YEAR PLAN (WITH CHEM 103 IN THE FIRST SEMESTER)

**First Year**

Fall	Credits	Spring	Credits
HORT 120		3 CHEM 104	5
HORT 121		1 BIOLOGY/BOTANY 130 <sup>1</sup>	5
CHEM 103		4 MATH 113	3
MATH 112		3 Ethnic Studies	3
COMM A Course		3	
CALS First Year Seminar		1	
	<b>15</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
HORT 320		3 HORT 227	3

BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	5 HORT 334 & HORT 335	3
Horticulture Breadth	3 Horticulture Breadth	6
COMM B Course	3 Humanities	3-4
	<b>14</b>	<b>15-16</b>

**Third Year**

Fall	Credits	Spring	Credits
Agricultural Breadth <sup>2</sup>		6 Agricultural Breadth <sup>2</sup>	6
Horticulture Breadth		3 Math / Statistics / Computer Science	3
CALS International Studies <sup>3</sup>		3 Humanities	3-4
Electives		3-4 Elective	3
	<b>15-16</b>		<b>15-16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Agricultural Breadth <sup>2</sup>		3 Agricultural Breadth <sup>2</sup>	3-4
Social Sciences		3 Electives	9
Horticulture Capstone		3	
Electives		6-7	
	<b>15-16</b>		<b>12-13</b>

**Total Credits 117-122**

Students must complete at least 120 total credits to be eligible for graduation.

1

BIOLOGY/BOTANY 130, BIOLOGY/ZOOLOGY 101, and BIOLOGY/ZOOLOGY 102 is the preferred biology track.

2

Please consult with a Horticulture advisor to discuss when specific courses are typically offered.

3

Students can choose to complete the CALS International Studies requirement using HORT 370 or HORT/AGRONOMY 376 & HORT 378, which also fulfill Horticulture major requirements.

## ADVISING AND CAREERS

### ADVISING

Students interested in learning more about the Horticulture major should meet with Kathryn Jones, [kjones26@wisc.edu](mailto:kjones26@wisc.edu), or schedule an advising appointment via Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

### FACULTY MENTORS

The Horticulture Department maintains a list of faculty mentors (<https://horticulture.wisc.edu/faculty-and-staff-2/faculty-and-staff/>) that are available to help current students with internships and careers, graduate school preparation, research opportunities, etc.

## CAREERS

A degree in horticulture prepares students for numerous career paths, including plant breeding and genetics, applied plant science, food crop production, greenhouse production, urban agriculture, community-supported agriculture (CSA), gardening and landscaping, horticulture education, extension- and community-based education, horticultural therapy, and the health sciences. For sample career profiles in horticulture, see Career Opportunities (<https://horticulture.wisc.edu/academics/undergraduate-program/research-career-opportunities-3/>) on the department website.

## PEOPLE

### PROFESSORS

Bamberg, Colquhoun, Goldman, Krysan (chair), Simon, Weng, Zalapa

### ASSOCIATE PROFESSORS

Atucha, Bethke, Dawson, Endelman, Jull

### ASSISTANT PROFESSORS

Ellison, Kovaleski, Wang

### USDA SCIENTIST

Mura

### INSTRUCTIONAL STAFF

Calderon, Luiken, Oosterwyk

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a great way for Horticulture students to get hands-on horticultural experience. Many of our students intern at locations that vary from seed companies to wineries to public gardens. Horticulture students also have many opportunities to intern during the year on or near campus at facilities such as the Allen Centennial Garden (<https://allencentennialgarden.org/>), the UW Arboretum (<https://arboretum.wisc.edu/>), and the Agricultural Research Stations (<https://ars.wisc.edu/>).

### RESEARCH

Horticulture students have many opportunities to get involved with research in the department. Students primarily find research opportunities by directly contacting faculty. Faculty can be found on the department's website by the directory list (<https://horticulture.wisc.edu/faculty-and-staff-2/faculty-and-staff/>), by crops studied (<https://horticulture.wisc.edu/research-and-outreach-2/crops-studied/>), or by program area (<https://horticulture.wisc.edu/research-and-outreach-2/faculty-by-program-area/>). Occasionally, research positions are posted on the Student Job Center.

### STUDY ABROAD

Horticulture students have unique opportunities to contextualize the learning acquired in traditional face-to-face courses on campus by participating in short-term field experiences abroad led by program leaders from the Department of Horticulture.

Some of these programs include: **UW Tropical Horticulture in Costa Rica** and **UW Food Systems and the Environment in Northern Japan**.

## HORTICULTURE SOCIETY

Connect with other Horticulture majors and those interested in horticulture by joining the Horticulture Society. The Horticulture Society is a professional, social, and educational group which provides a common ground for all students interested in horticulture to meet other students with the same interests.

## LIFE SCIENCES COMMUNICATION

The Department of Life Sciences Communication (LSC) is one of the world's leading science communication programs, working at the intersection of science, media and society. The LSC major teaches students how to understand the way we all make sense of increasingly complex scientific breakthroughs. This theoretical background is a foundation to effectively communicate about controversial science topics in areas such as the environment and natural resources, health, agriculture and new science technologies like gene editing and artificial intelligence.

Students receive instruction across multimedia platforms such as print, audio, video and web. They are taught how to target and create communications for both news and marketing. Most important, they learn how to plan strategically and implement the most effective communications for diverse audiences.

Many courses in LSC have a strong professional focus, combining classroom instruction with projects that have real-world clients from industry and non-profit. Our faculty and instructors work with clients from a variety of industries and the policy world and bring those experiences into the classroom. These collaborations and projects prepare LSC students for careers in a wide variety of fields, including healthcare, digital marketing, education, media, agriculture, information technology, consumer goods, life sciences and consulting. LSC students also pursue graduate and professional school after graduation in the health, biological, social and physical sciences.

Students can also participate in an honors in major program in LSC (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/life-sciences-communication/life-sciences-communication-bs/#requirementstext>).

### Learn through hands-on, real world experiences

State-of-the-art computer labs, radio labs and video production equipment support student learning and preparation for careers.

Capstone courses provide students with an opportunity to put their LSC education into practice. Students apply their skills in the real world through these capstones, working with a real-life client on a social marketing campaign to influence behavioral change or participate in a science communication internship.

Students interested in science communication research can participate in research projects with professors leading the field of science communication.

### Build community and networks

LSC instructors are world-class researchers and real-world practitioners. Many courses enroll between 15–50 students, allowing students to get to know award-winning faculty and instructors personally throughout their time in the major.

### Customize a path of study

LSC is an attractive major, and double major, to students interested in a variety of fields including genetics, global health, environmental science, physics, legal studies, psychology and more. The LSC major is highly customizable both in terms of course selection in the major and in the ability to add majors and certificates to the LSC bachelor's degree based on each student's interests and career goals.

### Make a strong start

LSC introduces students to the field of science communication, the College of Agricultural and Life Sciences, and the university by offering LSC 155: First Year Seminar in Science Communication, a seminar course for first year students.

### Gain global perspective

LSC students often participate in study abroad opportunities around the world including places like Spain, Uganda, Denmark, England and Ecuador. Programs range from two-weeks in duration to an entire year. Learn more about studying abroad as an LSC major by checking out the LSC Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## DEGREES/MAJORS/CERTIFICATES

- Life Sciences Communication, B.S. (p. 192)
- Science Communication, Certificate (p. 198)

## PEOPLE

### PROFESSORS & INSTRUCTORS ([HTTPS://LSC.WISC.EDU/PEOPLE/FACULTY-RESEARCH-STAFF/](https://lsc.wisc.edu/people/faculty-research-staff/))

Botham, Sarah  
 Brossard, Dominique (chair)  
 Chen, Kaiping  
 Chinn, Sedona  
 Fisher, Madeline  
 Li, Nan  
 Newman, Todd  
 Patterson, Dexter  
 Scheufele, Dietram  
 Shaw, Bret  
 Stanley, Don  
 Xenos, Michael (director of undergraduate studies)

## LIFE SCIENCES COMMUNICATION, B.S.

The Department of Life Sciences Communication (LSC) is one of the world's leading science communication programs, working at the intersection of science, media and society. The LSC major teaches

students how to understand the way we all make sense of increasingly complex scientific breakthroughs. This theoretical background is a foundation to effectively communicate about controversial science topics in areas such as the environment and natural resources, health, agriculture and new science technologies like gene editing and artificial intelligence.

Students receive instruction across multimedia platforms such as print, audio, video and web. They are taught how to target and create communications for both news and marketing. Most important, they learn how to plan strategically and implement the most effective communications for diverse audiences.

Many courses in LSC have a strong professional focus, combining classroom instruction with projects that have real-world clients from industry and non-profit. Our faculty and instructors work with clients from a variety of industries and the policy world and bring those experiences into the classroom. These collaborations and projects prepare LSC students for careers in a wide variety of fields, including healthcare, digital marketing, education, media, agriculture, information technology, consumer goods, life sciences and consulting. LSC students also pursue graduate and professional school after graduation in the health, biological, social and physical sciences.

Students can also participate in an honors in major program in LSC (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/life-sciences-communication/life-sciences-communication-bs/#requirementstext>).

### Learn through hands-on, real world experiences

State-of-the-art computer labs, radio labs and video production equipment support student learning and preparation for careers.

Capstone courses provide students with an opportunity to put their LSC education into practice. Students apply their skills in the real world through these capstones, working with a real-life client on a social marketing campaign to influence behavioral change or participate in a science communication internship.

Students interested in science communication research can participate in research projects with professors leading the field of science communication.

### Build community and networks

LSC instructors are world-class researchers and real-world practitioners. Many courses enroll between 15–50 students, allowing students to get to know award-winning faculty and instructors personally throughout their time in the major.

### Customize a path of study

LSC is an attractive major and double major to students interested in a variety of fields including genetics, global health, environmental science, physics, legal studies, psychology and more. The LSC major is highly customizable both in terms of course selection in the major and in the ability to add majors and certificates to the LSC bachelor's degree based on each student's interests and career goals.

### Make a strong start

LSC introduces students to the field of science communication, the College of Agricultural and Life Sciences and the university by offering LSC 155: First Year Seminar in Science Communication, a seminar course for first year students.



## Gain global perspective

LSC students often participate in study abroad opportunities around the world including places like Spain, Uganda, Denmark, England and Ecuador. Programs range from two-weeks in duration to an entire year. Learn more about studying abroad as an LSC major by checking out the LSC Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/life-sciences-communication/>). Students work with their advisor and the CALS study abroad office (<https://cals.wisc.edu/academics/undergraduate/current-students/study-abroad/>) to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

Students are not allowed to earn both the science communication certificate and the life sciences communication major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. Students must have a minimum of 15 credits within the LSC major that do not double count with CALS or university "general education" requirements.

### MATH AND STATISTICS FOUNDATION

LSC strongly recommends that all students complete MATH 112 Algebra or MATH 114 Algebra and Trigonometry to complete the university Quantitative Reasoning A requirement and either STAT 301 Introduction to Statistical Methods, STAT 371 Introductory Applied Statistics for the Life Sciences or SOC/C&E SOC 360 Statistics for Sociologists I which would complete the university Quantitative Reasoning B requirement.

## REQUIRED COURSES

Code	Title	Credits
<b>Foundation Course</b>		
LSC 111	Science and Technology Newswriting	3
or LSC 212	Introduction to Scientific Communication	
<b>Core</b>		
LSC 250	Research Methods in the Communication Industry	3
LSC 251	Science, Media and Society	3
Select two of the following:		6
LSC 270	Marketing Communication for the Sciences	
LSC 314	Introduction to Digital Video Production	
LSC 332	Print and Electronic Media Design	
LSC 340	Misinformation, Fake News, and Correcting False Beliefs about Science	
LSC 350	Visualizing Science and Technology	
LSC 360	Information Radio	
<b>Concentration within the Major</b>		
Select 6 credits from one of the following concentrations:		6
Communication Strategy		
Communication Skills and Technologies		
<b>Capstone</b>		
LSC 515	Social Marketing Campaigns in Science, Health and the Environment	3
or LSC 640	Case Studies in the Communication of Science and Technology	
<b>Total Credits</b>		<b>24</b>

## CONCENTRATIONS WITHIN THE MAJOR COMMUNICATION STRATEGY

This concentration focuses on the skills and theory necessary to effectively communicate with audiences in the life sciences context, while satisfying the long terms strategic goals of an organization. The concentration includes courses in marketing, strategic and risk communication, and data analysis.

Code	Title	Credits
Select two of the following:		6
LSC 432	Social Media for the Life Sciences	
LSC 435	Brand Strategy for the Sciences	
LSC 440	Digital Media and Science Communication	
LSC/ AMER IND 444	Native American Environmental Issues and the Media	
LSC 460	Social Media Analytics	
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	
LSC 625	Risk Communication	

LSC 660 Data Analysis in Communications  
Research

## COMMUNICATION SKILLS AND TECHNOLOGIES

This concentration focuses on the skills required to translate organized information into informative and persuasive messages for a variety of media, such as writing, documentary photography, social media, web design and video production.

Code	Title	Credits
Select two of the following:		6
LSC 430	Communicating Science with Narrative	
LSC 432	Social Media for the Life Sciences	
LSC 450	Documentary Photography for the Sciences	
LSC 532	Web Design for the Sciences	
LSC 614	Advanced Video Production	

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## HONORS IN THE MAJOR IN LIFE SCIENCES COMMUNICATION: REQUIREMENTS

Students may apply for admission to Honors in the Major in Life Sciences Communication (LSC) at any time but are strongly advised to apply before

their junior year. Interested students are encouraged to meet with the LSC advisor with any questions about Honors in the Major in LSC.

- 24-28 credits of coursework, as outlined in the chart below.
- For the 15 credits of LSC coursework taken for honors credit:
  - Students must earn at least a 3.5 cumulative GPA in this coursework.
  - It is the student's responsibility to enroll in honors sections or to select honors optional in order for courses to count toward Honors in the Major.
  - Thesis and Independent Study credits do not count toward the required 15 credits of LSC honors coursework.
- Complete a senior honors thesis and present the thesis at the CALS Undergraduate Research Symposium or another public venue.

Code	Title	Credits
<b>Required Coursework</b>		
STAT 301 or STAT 371 or C&E SOC/ SOC 360	Introduction to Statistical Methods Introductory Applied Statistics for the Life Sciences Statistics for Sociologists I	3
LSC 289 or LSC 299 or LSC 699	Honors Independent Study Independent Study Special Problems	2
LSC 681 & LSC 682	Senior Honors Thesis and Senior Honors Thesis	4-8
15 credits of LSC coursework taken for Honors credit		15
<b>Total Credits</b>		<b>24-28</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Specialized knowledge in theoretical and applied communication of science and technology, along with an education broad enough to meet the challenges of changing careers and opportunities.

2. The ability to think critically and creatively: to synthesize, analyze, and integrate ideas for decision making and problem solving.
3. The ability to communicate effectively across media and a broad range of audiences.
4. A global perspective; an appreciation for the interdependencies among individuals and their workplaces, communities, environments, and world; and an understanding of the interrelationships between science and society.
5. The ability to work with others in small or large groups, to recognize civic and social responsibilities, and to appreciate the uses of public policy in a democracy.
6. A respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN SAMPLE LIFE SCIENCES COMMUNICATION FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
LSC 100 <sup>1</sup>		3 LSC 111 or 212	3
MATH 112 or 114 <sup>2</sup>		3-5 LSC 250	3
CALS First Year Seminar		1 CHEM 103, 108, or 109	4-5
Humanities Elective		3 Ethnic Studies	3
Electives <sup>3</sup>		4-5 Elective	3
		<b>14-17</b>	<b>16-17</b>

#### Second Year

Fall	Credits	Spring	Credits
LSC 251		3 LSC Core Elective	3
STAT 301, 371, or C&E SOC 360 <sup>4</sup>		3-4 CALS International Studies	3
Biological Science Elective		3 Science Breadth Elective	3
Humanities Elective		3 Electives	7
Elective		3	
		<b>15-16</b>	<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
LSC Core Elective		3 LSC Concentration	3
Social Science Elective		3 Biological Science Elective	3
Electives		9 Electives	9
		<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
LSC Concentration		3 LSC 515 or 640	3
Additional Science Elective		3 Electives	12
Electives		9	
		<b>15</b>	<b>15</b>

**Total Credits 121-126**

Students must complete at least 120 total credits to be eligible for graduation.

**1**

LSC 100 is not required for the major but is strongly encouraged for students who need to take a Comm A course.

**2**

LSC recommends MATH 112 or MATH 114 for students who need to complete the university Quantitative Reasoning A requirement.

**3**

Many LSC students choose to use elective spaces throughout their career to complete an additional major or certificate. Other students choose to take more LSC courses than the minimum required. Students should consult the advisor for more information and to create a personalized four-year plan based on their background, interests, and career goals.

**4**

LSC strongly recommends STAT 301, STAT 371, or C&E SOC/SOC 360 to fulfill the university Quantitative Reasoning B requirement.

## THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

These three-year road maps below are designed to provide an example of how a student could complete their B.S. in Life Sciences Communication within three years. One plan assumes you are entering college with 29 credits from Advanced Placement, International Baccalaureate, or college transfer courses, including fulfilling UW-Madison's Quantitative Reasoning A requirement through credit or placement scores. The other plan assumes you are entering without bringing in outside credits. Your specific program of study could, and probably will, look different. You should customize the road map to fit your unique path at UW-Madison. Consult with your advisor about the best path for you.

### SAMPLE THREE-YEAR PLAN #1<sup>1</sup>

**First Year**

Fall	Credits	Spring	Credits	Summer	Credits	Total
LSC 100 (Comm A) <sup>2</sup>	3	LSC 111 or 212 (Comm B)	3	Social Science Elective	3	9
CALS First Year Seminar	1	LSC 250	3			4
Humanities Elective	3	CHEM 103, 108, or 109	4-5			7-8
Electives <sup>3</sup>	7	Ethnic Studies	3			10
<b>14</b>		<b>13-14</b>				<b>3</b>

**Second Year**

Fall	Credits	Spring	Credits
LSC 251	3	LSC Core	3
STAT 301, 371, or C&E SOC 360 <sup>4</sup>	3-4	Biological Science Elective	3
LSC Core	3	Humanities Elective	3
Additional Science Elective	3	Electives	7
Electives	3		
<b>15-16</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
LSC Concentration	3	LSC Capstone	3
CALS International Studies	3	LSC Concentration	3
Science Breadth Elective	3	Biological Science Elective	3
Electives	6	Electives	6
<b>15</b>		<b>15</b>	

**Total Credits 91-93**

Students must complete at least 120 total credits to be eligible for graduation.

**1**

Plan #1 assumes that students are coming to UW-Madison with approximately 29 credits from AP/IB or college transfer credits and that the University Quantitative Reasoning A requirement is fulfilled through transfer credit or placement scores. Your plan may look different depending on the number of credits you bring in.

**2**

LSC 100 is not required for the major but is strongly encouraged for students who need to take a Communication A course.

**3**

Many LSC students use their elective coursework to take additional LSC courses, to add one or more certificates, to add a double major, or to take other coursework to work to achieve their academic and career goals.

**4**

LSC recommends STAT 301, STAT 371, or C&E SOC/SOC 360 to fulfill the university Quantitative Reasoning B requirement.

### SAMPLE THREE-YEAR PLAN #2<sup>1</sup>

**First Year**

Fall	Credits	Spring	Credits	Summer	Credits	Total
LSC 100 <sup>2</sup>	3	LSC 111 or 212 (Comm B)	3	LSC 251	3	9
MATH 112 or 114 <sup>3</sup>	3-5	LSC 250	3	Electives	6	9-11
CALS First Year Seminar	1	CHEM 103, 108, or 109	4-5			6-7
Humanities Elective	3	Ethnic Studies	3			6

Electives <sup>4</sup>	4 Elective	3	
	<b>14-16</b>	<b>16-17</b>	<b>9</b>
<b>Second Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
STAT 301, 371, or C&E SOC 360 <sup>5</sup>	3-4 Biological Science Elective	3 LSC Core	3
LSC Core	3 Social Sciences Elective	3 Science Breadth Elective	3
Additional Science Elective	3 Humanities Elective	3 Elective	3
Electives	7 Electives	7	
	<b>16-17</b>	<b>16</b>	<b>9</b>
<b>Third Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
LSC Concentration	3 LSC Capstone	3 LSC Concentration	3
CALS International Studies	3 Biological Science Elective	3 Electives	6
Electives	9-11 Electives	10	
	<b>15-17</b>	<b>16</b>	<b>9</b>

**Total Credits 120-126**

Students must complete at least 120 total credits to be eligible for graduation.

1

Plan #2 assumes that you are coming to UW-Madison without credits from AP/IB or another college/university.

2

LSC 100 is not required for the major but is strongly encouraged for students who need to take a Comm A course.

3

LSC recommends MATH 112 or MATH 114 for students who need to complete the university Quantitative Reasoning A requirement.

4

Many LSC students use their elective coursework to take additional LSC courses, to add one or more certificates, to add a double major, or to take other coursework to work to achieve their academic and career goals.

5

LSC strongly recommends STAT 301, STAT 371, or C&E SOC/SOC 360 to fulfill the university Quantitative Reasoning B requirement.

## ADVISING AND CAREERS

### ADVISING

Each LSC student is assigned to both an academic advisor and a faculty mentor in LSC. The academic advisor is a professional advisor who works with students on planning their coursework, as well as navigating and getting involved on campus. Current and prospective students should contact the advisor with questions.

The faculty mentors are LSC faculty and instructors who provide students with another direct contact and resource in the department specifically

focusing on career conversations as well as how to get involved in research as a student.

### CAREER OPPORTUNITIES

LSC alumni hold professional positions in communications, digital marketing, environmental advocacy, and research or consulting in a variety of industries including health care, media, education, agriculture, information technology and life sciences. Many pursue advanced degrees in graduate and professional programs in the health, biological, social and physical sciences.

Graduates are recognized for their skills in social media, event management, marketing, leadership, public speaking, customer service, public relations, strategic planning, research, data analysis, writing and digital video production.

LSC has a large alumni network across many industries and fields. To connect students to these networks, LSC hosts career panels during the academic year, posts alumni profiles (<https://lsc.wisc.edu/alumni-friends/what-our-undergraduate-alumni-are-doing/>) on its website, and manages a LinkedIn group to share job opportunities and facilitate connections between alumni and students.

## PEOPLE

### PROFESSORS & INSTRUCTORS ([HTTPS://LSC.WISC.EDU/PEOPLE/FACULTY-RESEARCH-STAFF/](https://lsc.wisc.edu/people/faculty-research-staff/))

Botham, Sarah  
 Brossard, Dominique (chair)  
 Chen, Kaiping  
 Chinn, Sedona  
 Fisher, Madeline  
 Li, Nan  
 Newman, Todd  
 Patterson, Dexter  
 Scheufele, Dietram  
 Shaw, Bret  
 Stanley, Don  
 Xenos, Michael (director of undergraduate studies)

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Most LSC students participate in internships during their time as undergraduates. LSC staff notify students of opportunities to apply for summer and academic year internships related to science communication and students are encouraged to discuss their goals with their career mentor (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/life-sciences-communication/life-sciences-communication-bs/#advisingandcareerstextcontainer>). Students intern with marketing agencies, environmental and sustainability organizations, and healthcare and agricultural agencies. Read about student internship experiences (<https://lsc.wisc.edu/?s=internship&submit=Search>).

### STUDENT ORGANIZATIONS

LSC is home to both the Science Communication Club and the National Agri-Marketing Association UW-Madison chapter (<https://lsc.wisc.edu/academic-programs/undergraduate/#student-organizations>), and there

are many additional opportunities for students to get involved with other student organizations on campus.

## GLOBAL ENGAGEMENT

LSC students are encouraged to gain global perspective by participating in study abroad opportunities all over the world including places like Spain, Uganda, Denmark, England and Ecuador. Students choose programs ranging anywhere from two-weeks in duration to an entire year. Learn more about studying abroad as an LSC major (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/life-sciences-communication/>).

LSC offers a course introducing students to communication at the intersection of science, politics and society to provide students with an international perspective on science communication. Taught by faculty from around the world, LSC courses provide an overview of the theoretical foundations of science communication and their relevance for societal debates about science and emerging technologies across different parts of the world.

## COMMUNITY ENGAGEMENT AND VOLUNTEERING

LSC students often volunteer in healthcare, non-profits, advocacy agencies and more. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. LSC awards over \$42,000 in scholarships each year to students in the department. Students apply for CALS and LSC scholarships through a single application in the Wisconsin Scholarship Hub (WiSH). Learn more about college scholarships (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## SCIENCE COMMUNICATION, CERTIFICATE

The Department of Life Sciences Communication (LSC) is one of the world's leading science communication programs, working at the intersection of science, media and society. The certificate in Science Communication teaches students how to understand the way we all make sense of increasingly complex scientific breakthroughs. Certificate students will gain an introduction to science communication theory and practical experience which allows them to more effectively communicate about controversial science in areas such as gene editing, the environment, health, agriculture, and artificial intelligence.

## HOW TO GET IN

Students are eligible to declare the certificate at any point in their undergraduate career but are encouraged to declare as early as possible to plan the required coursework. Students are encouraged to meet with the advisor to discuss certificate requirements and ensure it fits with their academic and career goals. Students who are ready to

declare the certificate can do so by completing this form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_294pS5tCjs8sjVl/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_294pS5tCjs8sjVl/)).

Students are not allowed to earn both the science communication certificate and life sciences communication major.

## REQUIREMENTS

- Minimum 2.0 GPA on all certificate courses
- At least 9 credits must be taken in residence at UW-Madison
- Courses in which a student elects the pass/fail option will not count toward completion of the certificate requirements

Code	Title	Credits
<b>Core Course (Required)</b>		<b>3</b>
LSC 251	Science, Media and Society	
<b>Focus Area, complete one course in each area</b>		<b>6</b>
Communication Strategy (See list below)		
Communication Skills & Technology (See list below)		
<b>Elective, complete one course from either area</b>		<b>3</b>
Communication Strategy (See list below)		
Communication Skills & Technology (See list below)		
<b>Total Credits</b>		<b>12</b>

## FOCUS AREAS

### COMMUNICATION STRATEGY

Code	Title	Credits
LSC 250	Research Methods in the Communication Industry	3
LSC 270	Marketing Communication for the Sciences	3
LSC 340	Misinformation, Fake News, and Correcting False Beliefs about Science	3
LSC 350	Visualizing Science and Technology	3
LSC 432	Social Media for the Life Sciences	3
LSC 435	Brand Strategy for the Sciences	3
LSC 440	Digital Media and Science Communication	3
LSC/AMER IND 444	Native American Environmental Issues and the Media	3
LSC 460	Social Media Analytics	3
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	3
LSC 625	Risk Communication	3
LSC 660	Data Analysis in Communications Research	3

### COMMUNICATION SKILLS & TECHNOLOGY

Code	Title	Credits
LSC 111	Science and Technology Newswriting	3
LSC 212	Introduction to Scientific Communication	3

LSC 314	Introduction to Digital Video Production	3	Chen, Kaiping Chinn, Sedona
LSC 332	Print and Electronic Media Design	3	Fisher, Madeline
LSC 360	Information Radio	3	Li, Nan
LSC 430	Communicating Science with Narrative	3	Newman, Todd Patterson, Dexter
LSC 432	Social Media for the Life Sciences	3	Scheufele, Dietram
LSC 450	Documentary Photography for the Sciences	3	Shaw, Bret Stanley, Don
LSC 532	Web Design for the Sciences	3	Xenos, Michael (director of undergraduate studies)
LSC 614	Advanced Video Production	3	

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Apply knowledge in theoretical and applied communication to help meet society's biggest challenges in science and technology.
2. Discuss the interdependencies among individuals and their workplaces, communities, environments, and world; and the interrelationships between science and society.
3. Communicate effectively across media and a broad range of audiences.
4. Collaborate with others in small and large groups, demonstrating an appreciation for diverse views and a strong sense of personal and professional ethics.

### ADVISING AND CAREERS

#### ADVISING

Current and prospective students should contact the advisor with questions or schedule an advising meeting using Starfish.

#### CAREERS

The interdisciplinary education provided through the Certificate in Science Communication will make graduates highly sought after by employers across both scientific and communication industries. Graduates can pursue careers in science writing, digital media and marketing, public health, environmental advocacy, and research in industry, non-profits and the government. Alternatively, others may go on to graduate and professional schools in the health, biological, social and physical sciences.

We encourage you to check out our website (<http://lsc.wisc.edu/>) to view recent alumni profiles.

### PEOPLE

#### PROFESSORS & INSTRUCTORS ([HTTPS://LSC.WISC.EDU/PEOPLE/FACULTY-RESEARCH-STAFF/](https://lsc.wisc.edu/people/faculty-research-staff/))

Botham, Sarah  
Brossard, Dominique (chair)

### WISCONSIN EXPERIENCE

#### INTERNSHIPS

LSC staff notify certificate students of opportunities to apply for summer and academic year internships related to science communication. Students could intern with marketing agencies, environmental and sustainability organizations, and healthcare and agricultural agencies.

#### STUDENT ORGANIZATIONS

LSC is home to both the Science Communication Club and the National Agri-Marketing Association UW-Madison chapter (<https://lsc.wisc.edu/academic-programs/undergraduate/#student-organizations>) and there are many additional opportunities for students to get involved with other student organizations on campus.

#### COMMUNITY ENGAGEMENT AND VOLUNTEERING

Certificate students could volunteer in healthcare, non-profits, advocacy agencies and more. The Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

### NUTRITIONAL SCIENCES

Nutritional sciences is an interdisciplinary field rooted in biology and biochemistry. The majors integrates the study of nutrition within the role of diet in health and disease and combines the basic and applied sciences to health and medicine.

The Department of Nutritional Sciences offers two areas of undergraduate study in nutrition, both of which require core courses within the chemistry, physiology, biochemical, clinical, business, and public health aspects of nutrition.

With focus on nutrition and preventative health, the Nutritional Sciences majors provide an excellent foundation for students who are looking to work in clinical and community nutrition, prepare for graduate education in the health and biochemical sciences, and/or pursue careers in research and industry.

### DEGREES/MAJORS/CERTIFICATES

- Nutritional Sciences, B.S. (p. 200)
- Nutritional Sciences, B.S. Nutrition and Dietetics (p. 206)

## PEOPLE

### PROFESSORS

Dave Eide (Department Chair)  
 Richard Eisenstein  
 Jing Fan  
 Guy Groblewski  
 Adam Kuchnia (Director of Didactic Program in Dietetics)  
 HuiChuan Lai  
 Denise Ney  
 James Ntambi  
 Beth Olson  
 Brian Parks  
 Joseph Pierre  
 Sherry Tanumihardjo  
 Eric Yen

### INSTRUCTORS

Erika Anna  
 Amber Haroldson  
 Tara LaRowe (Coordinator of Didactic Program in Dietetics)  
 Makayla Schuchardt  
 Yirong Wang

### ACADEMIC ADVISORS

Sarah Golla, MSW  
 Mona Mogahed, MPS

## NUTRITIONAL SCIENCES, B.S.

Nutritional sciences is the study of the biochemical and physiological basis of how diet impacts health and disease. Students explore a variety of biological concepts including biochemistry, genetics, microbiology, kinesiology, community nutrition, and epidemiology to understand how nutrients in food affect the body.

Students can tailor their studies by selecting from more than 20 courses covering a wide variety of topics, including, microbiology, genetics, obesity, metabolism, kinesiology and sports nutrition, as well as ethics of public health, global health, community nutrition, and cultural aspects of food. Many students supplement their studies outside of the classroom by contributing to research in a university lab or volunteering in the community.

With an emphasis on human health, the program prepares students for health and research careers in a variety of settings, including healthcare, education, corporate wellness, sports nutrition, government agencies, food companies, or pharmaceuticals.

### LEARN THROUGH HANDS-ON, REAL WORLD EXPERIENCE

In the classroom, students apply what they learn to real-world cases and approach nutritional health as they would in a clinical setting. Some courses also include field experiences or community-based learning experiences.

Because of the emphasis on biological sciences, many students choose to join a professor's research lab and may earn credit for their work within the lab. Students also have opportunities for community service internships under the guidance of a faculty member.

### BUILD COMMUNITY AND NETWORKS

The Dietetics and Nutrition Club (DNC) (<https://nutrisci.wisc.edu/undergraduate/dietetics-and-nutrition-club/>) is a registered student organization open to undergraduate and graduate students. The club offers a variety of opportunities for members to engage in networking events, participate in volunteer and community outreach opportunities, and to learn about the field of nutrition and the dietetics profession.

### CUSTOMIZE A PATH OF STUDY

With nearly 20 elective courses available in the third and fourth years of the program, students can plan their coursework to best fit their professional goals and explore scientific principles of greatest interest to them.

Students may participate in the college's Research in Honors program (<https://cals.wisc.edu/academics/undergraduate-students/outside-the-classroom/honors-program/honors-in-research/>). Many students enhance their major by participating in a certificate program such as the Biology Core Curriculum Honors (Biocore) Certificate (<https://guide.wisc.edu/undergraduate/letters-science/biology-core-curriculum/biology-core-curriculum-honors-certificate/>).

### MAKE A STRONG START

A popular First Year Interest Group (FIG) focuses on issues of food and identity and covers current events, nutrition policies related to chronic disease, and community-led programs to improve health outcomes.

### GAIN GLOBAL EXPERIENCE

Several courses emphasize global health and world nutrition. Many students pair a major in Nutritional Sciences with the Global Health Certificate, which includes a field experience/internship focused on a health-related topic of global importance. Students can explore studying abroad as a Nutritional Sciences major by utilizing the Nutritional Sciences Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW-Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.



## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	

or CHEM 108	Chemistry in Our World
or CHEM 109	Advanced General Chemistry

Biological Science	5
Additional Science (Biological, Physical, or Natural)	3
Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Select one of the following (or may be satisfied by placement exam):		5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
Select one of the following:		3-5
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

#### Chemistry

Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

#### Organic Chemistry

CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

#### Introductory Biology

Select one of the following options:		10
Option 1:		
BOTANY/ BIOLOGY 130	General Botany	
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
Option 2:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option 3:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	

BIOCORE 384	Cellular Biology Laboratory	
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**Nutritional Sciences Biology**

Select one of the following options:		8-13
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Option 1:

ANAT&PHY 335	Physiology	
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GENETICS 466	Principles of Genetics	
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And select one of the following: <sup>2</sup>		
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MICROBIO 101 & MICROBIO 102	General Microbiology and General Microbiology Laboratory	
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MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	
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Option 2:<sup>3</sup>

BIOCORE 485	Principles of Physiology	
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BIOCORE 486	Principles of Physiology Laboratory	
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BIOCORE 587	Biological Interactions	
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**Physics**

Select one of the following:		8-10
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PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
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PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
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PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
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**Core**

NUTR SCI/AN SCI/ DY SCI 311	Comparative Animal Nutrition	3
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or NUTR SCI 332	Human Nutritional Needs	
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NUTR SCI 431	Nutrition in the Life Span	3
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BIOCHEM/NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
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Select one of the following:		3-7
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BIOCHEM 501	Introduction to Biochemistry	
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BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	
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**Electives within the Major**

Select 6 credits from the following:		6
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A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
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ANAT&PHY 337	Human Anatomy	
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ANAT&PHY 338	Human Anatomy Laboratory	
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ANTHRO 365	Medical Anthropology	
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BIOCHEM 550	Principles of Human Disease and Biotechnology	
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BIOCHEM/ M M & I 575	Biology of Viruses <sup>4</sup>	
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BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease <sup>5</sup>	
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C&E SOC/ SOC 533	Public Health in Rural & Urban Communities	
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CHEM 311	Chemistry Across the Periodic Table	
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CHEM 327	Fundamentals of Analytical Science	
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CHEM 329	Fundamentals of Analytical Science	
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DY SCI 378	Lactation Physiology	
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FOOD SCI/ AN SCI 321	Food Laws and Regulations	
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FOOD SCI/ MICROBIO 325	Food Microbiology	
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GENETICS 545	Genetics Laboratory	
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HORT/ AGRONOMY 338	Plant Breeding and Biotechnology	
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HORT/ AGRONOMY/ BOTANY 339	Plant Biotechnology: Principles and Techniques I	
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HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	
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MED HIST/ PHILOS 515	Public Health Ethics	
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MED HIST/ PHILOS 558	Ethical Issues in Health Care	
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M M & I/PATH-BIO 528	Immunology	
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NUTR SCI 375	Special Topics	
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NUTR SCI 377	Cultural Aspects of Food and Nutrition	
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NUTR SCI/INTER-AG 421	Global Health Field Experience	
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NUTR SCI/ KINES 525	Nutrition in Physical Activity and Health	
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NUTR SCI 500	Undergraduate Capstone Seminar Laboratory	
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NUTR SCI 540	Community Nutrition and Health Equity	
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NUTR SCI/ BIOCHEM 619	Advanced Nutrition: Intermediary Metabolism of Macronutrients <sup>4</sup>	
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NUTR SCI/ POP HLTH 621	Introduction to Nutritional Epidemiology <sup>4</sup>	
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NUTR SCI 623	Advanced Nutrition: Minerals <sup>4</sup>	
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NUTR SCI 625	Advanced Nutrition: Obesity and Diabetes <sup>4</sup>	
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NUTR SCI/ AN SCI 626	Experimental Diet Design <sup>4</sup>	
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NUTR SCI 627	Advanced Nutrition: Vitamins <sup>4</sup>	
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NUTR SCI 631	Clinical Nutrition I	
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NUTR SCI 681	Senior Honors Thesis <sup>5</sup>	
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NUTR SCI 682	Senior Honors Thesis <sup>5</sup>	
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NUTR SCI 691	Senior Thesis-Nutrition <sup>5</sup>	
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NUTR SCI 692	Senior Thesis <sup>5</sup>	
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NUTR SCI 699	Special Problems <sup>6</sup>	
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ONCOLOGY 401	Introduction to Experimental Oncology	
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PATH 404	Pathophysiologic Principles of Human Diseases	
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POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	
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ZOOLOGY 470	Introduction to Animal Development	
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ZOOLOGY 570	Cell Biology	
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**Capstone**

Select one of the following:	1-8
NUTR SCI 500 Undergraduate Capstone Seminar Laboratory	
NUTR SCI 681 & NUTR SCI 682 Senior Honors Thesis and Senior Honors Thesis	
NUTR SCI 691 & NUTR SCI 692 Senior Thesis-Nutrition and Senior Thesis	
NUTR SCI 699 Special Problems <sup>7</sup>	
<b>Total Credits</b>	<b>66-91</b>

**1**

If MATH 171 Calculus with Algebra and Trigonometry I is taken, students must take MATH 217 Calculus with Algebra and Trigonometry II.

**2**

Consult advisor about combining MICROBIO 303 with MICROBIO 102.

**3**

If the Biocore sequence is taken to fulfill the first biology requirement, it must be taken to fulfill the second biology requirement.

**4**

These courses are taught primarily to graduate students. Permission to enroll from instructor may be required.

**5**

Note that for NUTR SCI 681/NUTR SCI 682 (Senior Honors Thesis) and NUTR SCI 691/NUTR SCI 692 (Senior Thesis), both courses in the sequence must be completed in order to earn a grade.

**6**

May count up to 6 credits of NUTR SCI 699 Special Problems towards the electives requirement.

**7**

Consult advisor regarding the possibility of completing NUTR SCI 699 Special Problems for capstone.

## RECOMMENDED NUTRITIONAL SCIENCE ELECTIVES

Code	Title	Credits
ANTHRO 365	Medical Anthropology	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
CHEM 311	Chemistry Across the Periodic Table	4
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
FOOD SCI/ AN SCI 321	Food Laws and Regulations	1
FOOD SCI/ MICROBIO 325	Food Microbiology	3
GENETICS 545	Genetics Laboratory	2

HORT/ AGRONOMY 338	Plant Breeding and Biotechnology	3
HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	2
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory	2
MED HIST/ PHILOS 515	Public Health Ethics	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
M M & I/PATH-BIO 528	Immunology	3
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition	3
NUTR SCI 375	Special Topics	1-4
NUTR SCI 377	Cultural Aspects of Food and Nutrition	3
NUTR SCI/INTER-AG 421	Global Health Field Experience	1-4
NUTR SCI 500	Undergraduate Capstone Seminar Laboratory	1
NUTR SCI/ KINES 525	Nutrition in Physical Activity and Health	3
NUTR SCI 540	Community Nutrition and Health Equity	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 570	Cell Biology	3

## HONORS IN THE MAJOR

Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.

### Admission Criteria for New First-Year Students:

- Complete program application including essay questions

### Admission Criteria for Transfer and Continuing UW-Madison Students:

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

## HOW TO APPLY

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may

apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

## REQUIREMENTS

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

## REQUIREMENTS

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take NUTR SCI 681 Senior Honors Thesis and NUTR SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors Program page (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Obtains and can articulate specialized knowledge in the field of nutritional sciences and dietetics along with an education broad enough to meet the challenges of future careers and opportunities.
2. Obtains and can articulate foundational knowledge in areas relevant to the field of nutrition and dietetics.
3. Communicates complex ideas in a clear and understandable manner through both written and oral presentations.
4. Demonstrates quantitative literacy in math and statistics relevant to nutritional sciences and dietetics.
5. Demonstrates the ability to think critically and creatively, to synthesize, analyze, and integrate ideas for decision making and problem solving.
6. Develops the skills for life-long learning and is capable of locating, interpreting, and critically evaluating professional literature and current research.
7. Develops a global perspective and an appreciation for the interdependencies among individuals and their workplaces,

communities, environments, and world; and an understanding of the interrelationships between science and society.

8. Develops a respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE NUTRITIONAL SCIENCES FOUR-YEAR PLAN

##### First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109 <sup>1</sup>		4-5 CHEM 104 <sup>1</sup>	5
MATH 113 (if needed) <sup>2</sup>		3 Social Sciences	3-4
COMM A		3 Ethnic Studies	3
CALS First Year Seminar		1 Elective	3
Electives		3-4	
		<b>14-16</b>	<b>14-15</b>

##### Second Year

Fall	Credits	Spring	Credits
CHEM 343		3 NUTR SCI 332	3
STAT 301 or 371		3 CHEM 345	3
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>3</sup>		5 BIOLOGY/BOTANY/ ZOOLOGY 152 <sup>3</sup>	5
CALS International Studies		3 Humanities	3-4
		<b>14</b>	<b>14-15</b>

##### Third Year

Fall	Credits	Spring	Credits
BIOCHEM 501 or 507 (if taking BIOCHEM 507, take BIOCHEM 508 in Spring)		3 NUTR SCI 431	3
CHEM 344		2 MICROBIO 101 or 303	3
ANAT&PHY 335		5 MICROBIO 102 or 304	2
Humanities		3 Nutritional Sciences Elective <sup>5</sup>	3-4
Elective		3 Electives	3-4
		<b>16</b>	<b>14-16</b>

##### Fourth Year

Fall	Credits	Spring	Credits
GENETICS 466 <sup>4</sup>		3 NUTR SCI 500	1
NUTR SCI/ BIOCHEM 510		3 PHYSICS 104	4
PHYSICS 103		4 Nutritional Sciences Electives <sup>5</sup>	3-6
Electives		6 Electives	6
		<b>16</b>	<b>14-17</b>

##### Total Credits 116-125

Students must complete at least 120 total credits to be eligible for graduation.

1

In order to take CHEM 103/CHEM 104 or CHEM 109, students must have a suitable math placement score or completion of MATH 112, MATH 114, MATH 171, or equivalent.

2

MATH course dependent on placement score and transfer credit evaluation.

3

BIOLOGY/BOTANY/ZOOLOGY 151 & BIOLOGY/BOTANY/ZOOLOGY 152 fulfills the COMM B requirement.

4

BIOCORE 381/BIOCORE 382, BIOCORE 383/BIOCORE 384, BIOCORE 485/BIOCORE 486, BIOCORE 587 also accepted.

5

Select 6 credits from major elective options.

## ADVISING AND CAREERS

### ADVISING

Students are assigned a professional advisor who assists them with building their personalized Wisconsin Experience—including a strong curriculum to match student interests—and provides advising on career paths including graduate school or pursuing advanced degrees in the health sciences.

Professors provide mentorship to students in the program through work on faculty-led research, including learning research paper- and grant-writing skills, communicating about scientific concepts, and presenting research results to different audiences.

### CAREER OPPORTUNITIES

Graduates of the program are working as physicians, scientists, physician assistants, nutrition product developers, foodservice directors, nutrition educators, wellness directors, and professors; and have a wide-range of employers including hospitals, clinics, nursing homes, school districts, food companies, universities, grocery stores, and non-profit organizations.

Alumni are recognized for their skills in healthcare, leadership, clinical research, communication, critical thinking, and problem solving.

## PEOPLE

### PROFESSORS

Dave Eide (Department Chair)

Richard Eisenstein

Jing Fan

Guy Groblewski

Adam Kuchnia (Director of Didactic Program in Dietetics)

HuiChuan Lai

Denise Ney

James Ntambi

Beth Olson

Brian Parks

Joseph Pierre

Sherry Tanumihardjo

Eric Yen

### INSTRUCTORS

Erika Anna

Amber Haroldson

Tara LaRowe (Coordinator of Didactic Program in Dietetics)

Makayla Schuchardt

Yirong Wang

### ACADEMIC ADVISORS

Sarah Golla, MSW

Mona Mogahed, MPS

## WISCONSIN EXPERIENCE

### RESEARCH EXPERIENCE

Undergraduate students have the opportunity to take for-credit and not-for-credit hours in labs (<https://nutrisci.wisc.edu/undergraduate/student-research/>) to participate in research and learn additional lab skills. Faculty-led research programs inform the scientific understanding of nutrition's role in health. Students can work with internationally recognized researchers who study metabolism, genetics, genomics, physiology, and nutritional management of diseases including phenylketonuria (PKU), cystic fibrosis, and diabetes.

### GLOBAL ENGAGEMENT

Faculty and students in the program have many connections with global activities. The UW Mobile Clinic and Health Care in Uganda (<https://studyabroad.wisc.edu/program/?programId=532>) study abroad program provides students an opportunity to visit Uganda and learn about nutrition and public health. The Village Health Project (<https://www.villagehealthproject.org/>) student organization grew out of students traveling to Uganda on UW-Madison programs and supports ongoing public health projects in the region.

### STUDENT ORGANIZATION

The Dietetics and Nutrition Club (DNC) (<https://nutrisci.wisc.edu/undergraduate/dietetics-and-nutrition-club/>), open to undergraduate and graduate students, hosts biweekly evening meetings featuring speakers on many topics related to nutrition. The group also assists students in finding volunteer and job opportunities in the field of nutrition.

### VOLUNTEER ACTIVITY

Students volunteer through many different programs in the community. Examples include:

- Volunteering at UW Hospitals and Clinics or other local hospitals to gain experience in patient care
- Joining the student organization Slow Food UW, a group that hosts dinners in the Madison community
- Addressing food insecurity through student groups including Food Justice Collective, Campus Food Shed, UW Frozen Meals program, Open Seat food pantry, Food Recovery Network-Madison Chapter, F.H. King: Students for Sustainable Agriculture; and Madison-area food pantries such as Madison Community Fridges

The Dietetics and Nutrition Club also offers volunteer opportunities.

## INTERNSHIP

Students may obtain academic credit along with community-based engagement by creating their own internship under the supervision of a faculty member.

## RESOURCES AND SCHOLARSHIPS

The Department of Nutritional Sciences awards tens of thousands of dollars in scholarship funds (<https://nutrisci.wisc.edu/undergraduate/scholarships/>) for students each year and Nutritional Sciences students are also eligible for scholarships in the College of Agricultural and Life Sciences.

Students in the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships. (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>)

## NUTRITIONAL SCIENCES, B.S. NUTRITION AND DIETETICS

In this major, students explore nutrition through clinical and management courses and prepare for postgraduate training required to become registered dietitian nutritionists (RDN). With an increased emphasis on the role of food and nutrition in treating and preventing disease, employment of registered dietitians is projected to grow faster than other occupations.

Registered dietitian nutritionists work in a wide variety of settings, including health care, business and industry, community and public health, education, research, government agencies, and private practice. Many organizations, particularly those in medical and health care settings, require RDN credentials.

## LEARN THROUGH HANDS-ON, REAL WORLD EXPERIENCES

Courses expose students to clinical problem solving, assessing medical record data, evaluating food intake, planning modified diets, and reviewing medical and research literature related to certain diseases or conditions. This training develops critical thinking, teamwork, and communication skills needed by dietetic interns and registered dietitians.

## BUILD COMMUNITY AND NETWORKS

The Dietetics and Nutrition Club (<https://win.wisc.edu/organization/dnc/>) is an academic and professional registered student organization offering a variety of opportunities for members to participate in networking events, volunteer activities, and community outreach opportunities.

## CUSTOMIZE A PATH OF STUDY

Students in the program can pursue Honors in Research (<https://cals.wisc.edu/academics/undergraduate-students/outside-the-classroom/honors-program/honors-in-research/>) through the College of Agricultural and Life Sciences.

Many students enhance their major by participating in a certificate program, including Global Health (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>).

## MAKE A STRONG START

A popular First Year Interest Group (FIG) focuses on issues of food and identity, and promotes respectful and inclusive interactions with patients and communities.

## GAIN A GLOBAL PERSPECTIVE

Several courses emphasize global health and world nutrition and UW–Madison offers more than a dozen study abroad and exchange programs that include a nutritional science component. Students can explore studying abroad utilizing the Nutrition and Dietetics Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

## ADMISSION TO NUTRITION AND DIETETICS DEGREE PROGRAM

Students will have Pre-Dietetics classification until admission to the nutrition and dietetics degree program (Dietetics classification) as defined by completion of prerequisite courses with a cumulative GPA of #2.800, as well as, an overall GPA of #2.800. Students must apply for and be admitted to the program no later than the end of the semester in which the student accumulates 86 credits, which is senior standing. Department approval is required for admission. Students who are not admitted to the program by the time they accumulate 86 credits will not be allowed to continue in the Pre-Dietetics classification.<sup>1</sup>

To be admitted to the B.S. nutrition and dietetics program, the following requirements must be met effective fall 2019:

1. A minimum overall cumulative GPA of 2.800. Cumulative GPA will be based on UW–Madison courses only.
2. Students **must** have completed one semester at UW–Madison before applying.
3. A minimum mean GPA of 2.800 in the following required<sup>2</sup> prerequisite courses:

Code	Title	Credits
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
Select one of the following:		5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ANAT&PHY 335	Physiology	5
NUTR SCI 332	Human Nutritional Needs	3
Select one of the following:		3-4
PSYCH 202	Introduction to Psychology	
MICROBIO 101	General Microbiology	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	

STAT 301	Introduction to Statistical Methods
STAT 371	Introductory Applied Statistics for the Life Sciences
GEN BUS 360	Workplace Writing and Communication

## 1

This policy is applicable to undergraduate students entering or transferring into Pre-Dietetics classification fall 2018 and beyond. Students who have already completed a college degree (B.S. or B.A.) may choose to pursue the nutrition and dietetics program as either a second degree candidate, or as a Didactic Program in Dietetics (DPD) completer. Because they have already completed a bachelor's degree, second-degree candidates and DPD completers are not required to follow this progression policy. Progression for these students will be closely monitored by the program coordinator.

## 2

Any transfer course from another university that will be used to meet the above required courses **cannot** be included in the GPA calculation. If the same course is taken more than once, only the grade from the last time the course was taken will be used in the GPA calculation.

**Note:** Admission to the DPD program is competitive, as enrollment is limited by accreditation standards; students meeting the minimum criteria are not guaranteed admission.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
Complete one of the following (or may be satisfied by placement exam):		3-5
MATH 112	Algebra	
MATH 114	Algebra and Trigonometry <sup>1</sup>	
Complete one of the following:		3-4
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Chemistry</b>		
Complete one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

Complete one of the following:		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343	Organic Chemistry I	
Complete one of the following:		3
BIOCHEM 301	Survey of Biochemistry	
BIOCHEM 501	Introduction to Biochemistry	
BMOLCHEM 503		
<b>Biology</b>		
Complete one of the following:		5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
Complete one of the following: <sup>2</sup>		5
MICROBIO 101 & MICROBIO 102	General Microbiology and General Microbiology Laboratory	
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	
<b>Foundation</b>		
ANAT&PHY 335	Physiology	5
PSYCH 202	Introduction to Psychology	3
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 360	Workplace Writing and Communication	3
<b>Core</b>		
FOOD SCI 301	Introduction to the Science and Technology of Food	3
FOOD SCI 437	Food Service Operations	4
NUTR SCI 200	The Professions of Dietetics and Nutrition	1
NUTR SCI 332	Human Nutritional Needs	3
NUTR SCI 431	Nutrition in the Life Span	3
BIOCHEM/NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
NUTR SCI 540	Community Nutrition and Health Equity	3
NUTR SCI 631	Clinical Nutrition I	3
NUTR SCI 632	Clinical Nutrition II	3
<b>Capstone</b>		
NUTR SCI 500	Undergraduate Capstone Seminar Laboratory	1
NUTR SCI 641	Applications in Clinical Nutrition I	1
NUTR SCI 642	Applications in Clinical Nutrition II	1
<b>Total Credits</b>		<b>70-77</b>

1

Note that placement into MATH 114 does not guarantee that credit has been earned for MATH 112.

2

Consult advisor about combining MICROBIO 303 with MICROBIO 102.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Obtains and can articulate specialized knowledge in the field of nutritional sciences and dietetics along with an education broad enough to meet the challenges of future careers and opportunities.
2. Obtains and can articulate foundational knowledge in areas relevant to the field of nutrition and dietetics.
3. Communicates complex ideas in a clear and understandable manner through both written and oral presentations.
4. Demonstrates quantitative literacy in math and statistics relevant to nutritional sciences and dietetics.
5. Demonstrates the ability to think critically and creatively, to synthesize, analyze, and integrate ideas for decision making and problem solving.
6. Develops the skills for life-long learning and is capable of locating, interpreting, and critically evaluating professional literature and current research.
7. Develops a global perspective and an appreciation for the interdependencies among individuals and their workplaces, communities, environments, and world; and an understanding of the interrelationships between science and society.
8. Develops a respect for truth, a tolerance for diverse views, and a strong sense of personal and professional ethics.



## FOUR-YEAR PLAN

## FOUR-YEAR PLAN

### SAMPLE NUTRITIONAL SCIENCES FOUR-YEAR PLAN—NUTRITION AND DIETETICS DEGREE

**First Year**

Fall	Credits	Spring	Credits
CHEM 103 or MATH 112	3-4	CHEM 104	5
COMM A	3	PSYCH 202	3-4
CALS First Year Seminar	1	BIOLOGY/ ZOOLOGY 101	3
Ethnic Studies	3-4	BIOLOGY/ ZOOLOGY 102	2
Elective (NUTR SCI 132 recommended)	3	Elective	3
<b>13-15</b>		<b>16-17</b>	

**Second Year**

Fall	Credits	Spring	Credits
CHEM 341 <sup>1</sup>	3	NUTR SCI 332	3
MICROBIO 101 or 303	3	ANAT&PHY 335	5
MICROBIO 102 or 304	2	GEN BUS 360 or 310	3
Humanities	3	Statistics Requirement	3-4
Electives	3-4		
<b>14-15</b>		<b>14-15</b>	

**Third Year**

Fall	Credits	Spring	Credits
FOOD SCI 301	3	NUTR SCI 431 <sup>2</sup>	3
NUTR SCI 200	1	NUTR SCI/ BIOCHEM 510	3
GEN BUS 310 or 360	3	NUTR SCI 540 <sup>3, 4</sup>	3
BIOCHEM 501 or 301 <sup>5</sup>	3	CALS International Studies	3
Electives	5-6	Humanities	3-4
<b>15-16</b>		<b>15-16</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
NUTR SCI 631 <sup>1</sup>	3	NUTR SCI 632 <sup>3</sup>	3
NUTR SCI 641 <sup>1</sup>	1	NUTR SCI 642 <sup>3</sup>	1
FOOD SCI 437 <sup>1</sup>	4	Electives	11
NUTR SCI 500	1		
Electives	6		
<b>15</b>		<b>15</b>	

**Total Credits 117-124**

Students must complete at least 120 total credits to be eligible for graduation.

1

Offered only fall semester

2

Offered only spring and summer semesters

3

Offered only spring semester

4

May be taken spring of third year or spring of fourth year.

5

BIOCHEM 501 is offered Fall and Spring. BIOCHEM 301 is offered Spring only.

- Advisors can recommend elective courses.
- Students interested in pursuing the nutrition and dietetics program must first complete specific prerequisite courses, hold pre-dietetics classification, and must achieve the necessary grade point average criteria, as listed on the How to Get In (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/nutritional-sciences-bs-nutrition-dietetics/#howtogetintext>) tab. Consult <https://www.nutrisci.wisc.edu> for specific information on the application procedure.

## ADVISING AND CAREERS

**ADVISING**

Students are assigned a professional advisor who assists them with building their personalized Wisconsin Experience—including a strong curriculum to match student interests—and provides advising on career paths including graduate school or pursuing advanced degrees in the health sciences.

Professors provide mentorship to students in the program through work on faculty-led research, including learning research paper- and grant-writing skills, communicating about scientific concepts, and presenting research results to different audiences.

**CAREER OPPORTUNITIES**

Registered dietitian nutritionists (RDN) work in hospitals, outpatient clinics, schools, colleges, wellness programs, and nursing homes, as well as in public health agencies, the food industry, and research labs. Students who receive a Nutritional Sciences B.S. in Dietetics and fulfill the requirements of the Didactic Program in Dietetics are qualified to complete a post-graduate Dietetic Internship. Upon completing the Dietetic Internship, a graduate is eligible to take the examination administered by the Commission on Dietetic Registration leading to certification as a RDN.

Alumni of the program are working as Registered Dietitians, clinical nutritionists, physician assistants, nutrition directors and counselors, and health coaches.

The Academy of Nutrition and Dietetics offers more information on career paths (<https://www.eatrightpro.org/about-us/become-an-rdn-or-dtr/high-school-students/exploring-a-career-in-dietetics/>) in dietetics.

## PEOPLE

**PROFESSORS**

Dave Eide (Department Chair)

Richard Eisenstein

Jing Fan

Guy Groblewski  
 Adam Kuchnia (Director of Didactic Program in Dietetics)  
 HuiChuan Lai  
 Denise Ney  
 James Ntambi  
 Beth Olson  
 Brian Parks  
 Joseph Pierre  
 Sherry Tanumihardjo  
 Eric Yen

## INSTRUCTORS

Erika Anna  
 Amber Haroldson  
 Tara LaRowe (Coordinator of Didactic Program in Dietetics)  
 Makayla Schuchardt  
 Yirong Wang

## ACADEMIC ADVISORS

Sarah Golla, MSW  
 Mona Mogahed, MPS

## WISCONSIN EXPERIENCE

### STUDENT ORGANIZATIONS

The Dietetics and Nutrition Club (DNC) (<https://nutrisci.wisc.edu/undergraduate/dietetics-and-nutrition-club/>), open to undergraduate and graduate students, hosts biweekly evening meetings featuring speakers on many topics related to nutrition. The group also assists students in finding volunteer and job opportunities in the field of nutrition.

Students can join the Academy of Nutrition and Dietetics (<http://eatright.org/>), the world's largest organization of food and nutrition professionals, providing public information on advocacy, leadership, career development, dietetics resources, position, and practice papers.

### COMMUNITY ENGAGEMENT AND VOLUNTEERING

Students in the program volunteer throughout the community on projects related to nutrition and food through student organizations like Slow Food UW (<http://win.wisc.edu/organization/slowfooduw-madison/>) or the Campus Food Shed (<http://win.wisc.edu/organization/campusfoodshed/>). Several students have developed their own community projects to educate people about nutrition and to fight food insecurity.

### GLOBAL ENGAGEMENT

Faculty and students in the program have many connections with global activities. The UW Mobile Clinic and Health Care in Uganda (<https://studyabroad.wisc.edu/program/?programId=532>) study abroad program provides students an opportunity to visit Uganda and learn about nutrition and public health. The Village Health Project student organization (<http://villagehealthproject.org/>) grew out of students traveling to Uganda on UW-Madison programs and supports ongoing public health projects in the region.

### RESEARCH EXPERIENCE

Undergraduate students have the opportunity to participate in independent research in labs to learn research techniques. Students can expand their scientific knowledge outside of the classroom and contribute to ongoing papers, research, and discoveries. These experiences lead

some students to pursue graduate studies in research after graduation. Read more about faculty research opportunities (<https://nutrisci.wisc.edu/people/faculty-staff/>).

## CERTIFICATION/LICENSURE

### ELEVATED EDUCATION REQUIREMENTS FOR THE FUTURE REGISTERED DIETITIAN NUTRITIONIST (RDN)

The registration examination for RDNs is designed to evaluate a candidate's ability to perform at the entry-level, and currently, candidates must hold the minimum of a baccalaureate degree to take the exam. In 2013, Commission on Dietetics Registration (CDR) moved to change the entry-level registration eligibility requirements for RDNs; instead of requiring a Baccalaureate degree, the educational preparation for the future entry-level RDN is now the minimum of a master's degree. **CDR's mandate goes into effect January 1, 2024.**

#### CURRENT STUDENTS

Students completing dietetics coursework and a dietetic internship by January 1, 2024 will still be eligible to take the RDN exam with a baccalaureate degree.

#### PROSPECTIVE STUDENTS

Freshmen declaring Pre-Dietetics in 2020 and beyond will be held to the new 2024 mandate, which will require students to hold the minimum of a master's degree in order to be eligible to take the RDN exam.

### PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

#### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

#### The requirements of this program do not meet Certification/Licensure in the following states: The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

### RESOURCES AND SCHOLARSHIPS

The Department of Nutritional Sciences awards tens of thousands of dollars in scholarship funds (<https://nutrisci.wisc.edu/undergraduate/scholarships/>) for students each year, and Nutrition and Dietetics students are also eligible for scholarships in the College of Agricultural and Life Sciences (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

The Academy of Nutrition and Dietetics Foundation provides dietetic scholarships to students. Visit [eatrightfoundation.secure-platform.com/a/](https://eatrightfoundation.secure-platform.com/a/) (<https://eatrightfoundation.secure-platform.com/a/>) for more information.

## ACCREDITATION

### ACCREDITATION

Accreditation Council for Education in Nutrition and Dietetics (<https://www.eatrightpro.org/acend/>)

Accreditation status: Accredited. Next accreditation review: 2027.

#### Students meet the following criteria as a pathway for becoming an RDN:

1. Fulfill all academic course requirements of the Didactic Program in Dietetics (DPD) according to the Accreditation Council for Education in Nutrition and Dietetics (ACEND) 2022 Standards of Education
2. Receive a Nutritional Sciences, B.S. Nutrition and Dietetics
3. Complete an ACEND-accredited Dietetic Internship Program\*
4. Pass a national exam administered by the Commission on Dietetic Registration (CDR). Effective January 1, 2024, the CDR will require a minimum of a master's degree to be eligible to take the registration examination to become an RDN.

\* Many ACEND accredited Dietetic Internship Programs now include both supervised practice and graduate requirements to meet the 2024 CDR mandate.

## PLANT AND AGROECOSYSTEM SCIENCES

Overview text here

## DEGREES/MAJORS/CERTIFICATES

Basic sitemap is above and will fill in when new pages are built

## PEOPLE

People go here

## PLANT PATHOLOGY

Plant pathology is the study of plants and their pathogens, the process of disease, and how plant health and disease are influenced by factors such as the weather, nonpathogenic microorganisms, and plant nutrition. It encompasses fundamental biology as well as applied agricultural sciences.

Plant pathology involves the study of plants and pathogens at the genetic, biochemical, physiological, cellular, population, and community levels, and how the knowledge derived is integrated and put into agricultural practice. Prerequisite to effective research, teaching, and extension in plant pathology is a breadth of interdisciplinary interest and knowledge, in a department and in its individual members, reaching from ecology to microbiology, from meteorology to applied mathematics, and from molecular biology to communication skills.

Plant pathology is a field that thrives in, and makes its greatest contribution to, comprehensive institutions like the University of Wisconsin-Madison where the proximity and complementarity of basic sciences and the other applied agricultural sciences are exceptionally strong.

Undergraduates in plant pathology can choose between two tracks. The plant-microbe biology track has courses in basic math and sciences, including biology, chemistry, and physics, along with upper-level courses in plant pathology, biochemistry, and microbiology. This track is geared toward students who have an interest in receiving a broad education in the basic sciences or plan to pursue a graduate or professional degree. The plant health and industry track includes some courses in basic math and sciences, as well as additional courses in agriculture and economics/management and upper-level courses in plant pathology, entomology, and other agricultural sciences. This track is designed for students who intend to work in industry after receiving their undergraduate degree. More information about careers in plant pathology is available from the department.

For those interested in graduate studies, the Department of Plant Pathology offers a broad program leading to M.S. and Ph.D. degrees, which is described in the Graduate Guide (<http://guide.wisc.edu/graduate/>).

## DEGREES/MAJORS/CERTIFICATES

- Organic Agriculture, Certificate (p. 212)
- Plant Pathology, B.S. (p. 214)

## PEOPLE

### FACULTY

Ahlquist, Paul  
 Allen, Caitilyn  
 Barak-Cunningham, Jeri  
 Bent, Andrew  
 Gevens, Amanda (chair)  
 Gluck-Thaler, Emile  
 Holland, Leslie  
 Handelsman, Jo  
 Kabbage, Mehdi  
 Koch, Paul

Lankau, Richard  
 Rakotondrafara, Aurelie  
 Silva, Erin  
 Solís-Lemus, Claudia  
 Smith, Damon

## AFFILIATED FACULTY

Ane', Jean-Michel (Bacteriology)  
 Groves, Russell (Entomology)  
 Havey, Michael (Horticulture)  
 Keller, Nancy (Medical Microbiology & Immunology)  
 Pringle, Ann (Botany)  
 Whitman, Thea (Soil Science)  
 Yu, Jae-Hyuk (Bacteriology)

## FACULTY ASSOCIATE

Hudelson, Brian

# ORGANIC AGRICULTURE, CERTIFICATE

As consumer, industry, and society engagement with organic agriculture expands, the Certificate in Organic Agriculture provides undergraduate students excellent opportunities for learning on a variety of levels, including hands-on experiences. While the certificate focuses on the production and processing approaches that define organic agriculture, students can also explore other dimensions including economic, environmental, health, food systems, and policy. This interdisciplinary certificate can help UW students from various majors to develop employment opportunities in organic agriculture businesses (farm to fork), policy, public and non-governmental agency work, individual wellness and health initiatives, and sustainable development efforts.

## HOW TO GET IN

University of Wisconsin - Madison undergraduate students of any major are welcome to pursue the Certificate in Organic Agriculture. Students are eligible to declare the certificate once they complete AGROECOL/AGRONOMY/C&E SOC/ENTOM/ENVIR ST 103 Agroecology: An Introduction to the Ecology of Food and Agriculture with a grade of B or better.

Students who meet the eligibility criteria must contact the Certificate Advisor to declare the certificate and be assigned an adviser. Students are encouraged to meet with the Certificate Advisor at any stage of their interest in the certificate.

Students cannot declare the Certificate in Environmental Studies or Certificate in Food Systems and the Certificate in Organic Agriculture.

## REQUIREMENTS

- Minimum of 15 credits and successful completion of all course requirements
- A minimum cumulative GPA of 2.5 in certificate coursework is required
- Courses in which a student elects the pass/fail option will not count toward completion of requirements.

Code	Title	Credits
<b>Core Courses</b>		
AGROECOL/ AGRONOMY/ C&E SOC/ENTOM/ ENVIR ST 103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3
PL PATH/A A E/ AGRONOMY/ HORT 367	Introduction to Organic Agriculture: Production, Markets, and Policy	3
HORT 372	Seminar in Organic Agriculture	1
PL PATH 499	Independent Study in Organic Agriculture	2
<b>Electives (complete 6 credits from the following list - courses can be chosen from any topic area)</b>		<b>6</b>
<i>Public Policy &amp; Administration</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
FOOD SCI/ AN SCI 321	Food Laws and Regulations	
HORT/ AGRONOMY 360	Genetically Modified Crops: Science, Regulation & Controversy	
PUB AFFR 240	Evidence-Based Policy Making	
PUB AFFR 380	Analytic Tools for Public Policy	
<i>Business/Entrepreneurship</i>		
A A E 215	Introduction to Agricultural and Applied Economics	
A A E 320	Agricultural Systems Management	
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
or GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
OTM/ MARKETNG 421	Fundamentals of Supply Chain Management	
ENVIR ST/A A E/ ECON 343	Environmental Economics	
FOOD SCI 437	Food Service Operations	
M H R 310	Challenges & Solutions in Business Sustainability	
M H R 322	Introduction to Entrepreneurial Management	
M H R 434	Venture Creation	
<i>Organic Production &amp; Processing</i>		
AGRONOMY 300	Cropping Systems	
AGRONOMY 302	Forage Management and Utilization	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
AGRONOMY 377	Global Food Production and Health	
BSE 349	Quantitative Techniques for Biological Systems	
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	

DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development
ENTOM 351	Principles of Economic Entomology
HORT 334	Greenhouse Cultivation
HORT 335	Greenhouse Cultivation Lab
HORT 345	Fruit Crop Production
HORT/ AGRONOMY 376	Tropical Horticultural Systems
PL PATH 300	Introduction to Plant Pathology
PL PATH 315	Plant Microbiomes
PL PATH/ SOIL SCI 323	Soil Biology
PL PATH/ AGRONOMY/ ENTOM/HORT/ SOIL SCI 354	Diagnosing and Monitoring Pest and Nutrient Status of Field Crops
SOIL SCI 322	Physical Principles of Soil and Water Management
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management
<i>Social Dimension</i>	
C&E SOC/ SOC 222	Food, Culture, and Society
C&E SOC/A A E/ SOC 340	Issues in Food Systems
C&E SOC/ SOC 341	Labor in Global Food Systems
ENVIR ST/ GEOG 339	Environmental Conservation
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
HORT 380	Indigenous Foodways: Food and Seed Sovereignty

**Total Credits****15**

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Describe the history of current organic systems and how it influences the way that organic farms and industries work.
2. Explore the biological, ecological, and agricultural underpinnings of organic production systems
3. Examine how organic systems, social initiatives, and regulations are developed and how they shape business activities, community development efforts, and human and environmental health outcomes.

4. Evaluate the benefits and limitations of organic systems, social initiatives, and regulations from environmental, social, economic, and racial justice perspectives
5. Apply knowledge of organic production through experiential opportunities within local, national and/or international communities.

## ADVISING AND CAREERS

### ADVISING

Advising is an essential resource for students in the Certificate for Organic Agriculture and helps students shape their unique Wisconsin Experience and career path by making the most of their time at UW-Madison. Advisors can help students make well-informed decisions about coursework and academics, share strategies for success, support them as they encounter challenges, connect them to resources, and provide information about campus policies and procedures. Students are encouraged to regularly meet with their advisor to help ensure that they are aware of opportunities and progressing in their academic and career goals.

Advising is typically done through individual in-person appointments, but advisors are also able to meet with students over the phone or through video conferencing if needed. Quick questions can be answered via email, but an appointment should be scheduled if a conversation is needed.

#### Certificate Advisor:

Allee Hochmuth

### CAREERS:

The knowledge and skills developed through the Certificate in Organic Agriculture equips students for success in a range of career paths.

Some certificate graduates may use this background to go into organic production, while others may choose a career path in relation to economics, policy, environmental stewardship, health, food systems, and beyond. This certificate has the potential to positively impact the employability of UW students across a variety of disciplines that intersect with organic agricultural production, policy, marketing, business, management, wellness, and community development.

Because an interest in organic agriculture can lead to many different careers, students are encouraged to begin the career exploration process early in their UW-Madison journey by working with advisors, faculty, and career resources on campus. These resources can help students reflect on their values and goals, identify career paths, and outline strategies for pursuing their goals.

## PEOPLE

### Instructors:

Tom Bryan (Teaching Faculty, Agronomy)  
 Julie Dawson (Associate Professor, Horticulture)  
 Paul Mitchell (Professor, Agricultural and Applied Economics)  
 Chuck Nicholson (Professor, Agricultural and Applied Economics)  
 Erin Silva (Associate Professor, Plant Pathology)  
 Bill Tracy (Professor, Agronomy)

### Staff:

Allee Hochmuth (Advisor)

Anders Gurda (Outreach Manager)

## WISCONSIN EXPERIENCE

Students who are engaged in the Certificate in Organic Agriculture can be involved in an array of opportunities across campus. In addition to the hands-on experiences in the Certificate program, students are highly encouraged to complement their coursework with out-of-classroom experiences such as research, volunteering, and study abroad.

The following opportunities can help students connect with other students interested in organic agriculture, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- Association of Women in Agriculture (<https://awamadison.org/>)
- GreenHouse Learning Community (<https://www.housing.wisc.edu/residence-halls/learning-communities/greenhouse/>)
- Women in Science and Engineering Learning Community (<https://www.housing.wisc.edu/residence-halls/learning-communities/wise/>)
- F.H. King Students for Sustainable Agriculture (<https://www.fhking.org/>)
- Slow Food UW (<https://slowfood-uw.org/>)
- Minorities in Agriculture, Natural Resources and Related Sciences - MANRRS (<https://www.manrrs.org/>)
- UW Horticulture Society (<https://horticulture.wisc.edu/academics/undergraduate-program/uw-horticulture-society/>)
- Collegiate Future Farmers of America - FFA, UW chapter (<https://biology.wisc.edu/program/collegiate-ffa-uw-madison-chapter-cffa/>)
- CALS Study Abroad (<https://cals.wisc.edu/academics/undergraduate-students/studyabroad/>)
- Badger Volunteers (<https://morgridge.wisc.edu/students/badger-volunteers/>)
- UW Student Organic Farm (<https://uworganic.wisc.edu/uw-student-organic-farm/>)

## PLANT PATHOLOGY, B.S.

Plant pathology is the study of plants and their pathogens, the process of disease, and how plant health and disease are influenced by factors such as the weather, nonpathogenic microorganisms, and plant nutrition. It encompasses fundamental biology as well as applied agricultural sciences.

Plant pathology involves the study of plants and pathogens at the genetic, biochemical, physiological, cellular, population, and community levels, and how the knowledge derived is integrated and put into agricultural practice. Prerequisite to effective research, teaching, and extension in plant pathology is a breadth of interdisciplinary interest and knowledge, in a department and in its individual members, reaching from ecology to microbiology, from meteorology to applied mathematics, and from molecular biology to communication skills.

### Learn through real-world, hands on experiences

Plant Pathology students learn in many field and lab courses, including classes that focus on economics of plant disease, interactions between plants and people, fungi, organic agriculture, and global food security. They can also take part in a summer field course, numerous internships, and research opportunities.

### Build community and networks

Plant pathology is a field that thrives in, and makes its greatest contribution to, comprehensive institutions like the University of Wisconsin–Madison where the proximity and complementarity of basic sciences and the other applied agricultural sciences are exceptionally strong. Please visit the department's Extension and Outreach (<https://plantpath.wisc.edu/extension-overview/>) overview page for additional details on the departments outreach activities, public education programs, and student organizations.

### Customize a path of study

Undergraduates in plant pathology can choose between two tracks. The plant–microbe biology track has courses in basic math and sciences, including biology, chemistry, and physics, along with upper-level courses in plant pathology, biochemistry, and microbiology. This track is geared toward students who have an interest in receiving a broad education in the basic sciences or plan to pursue a graduate or professional degree.

The plant health and industry track includes some courses in basic math and sciences, as well as additional courses in agriculture and economics/management and upper-level courses in plant pathology, entomology, and other agricultural sciences. This track is designed for students who intend to work in industry after receiving their undergraduate degree.

Students are also able to explore double majors and a multitude of undergraduate certificates based on their unique educational and professional interests. More information about careers in plant pathology is available from the department.

### Make a strong start

Freshman who are interested in plant pathology are encouraged to participate in a First-Year Interest Group (<https://figs.wisc.edu/what/>) (FIG) program. Topics of interest to Plant Pathology students include global food security, plants and human well-being, and many other fascinating options. See the latest Choose Your FIG (<https://figs.wisc.edu/choose/>) catalog for details.

### Gain global perspective

The plant pathology program is a great choice for students who wish to participate in a study abroad experience. Students can choose from a multitude of destinations world-wide, and can travel abroad during Summer, Spring, or Fall terms. Students can explore studying abroad as a Plant Pathology major by utilizing the Plant Pathology Major Advising Page. Students work with their advisor and the CALS study abroad office to identify appropriate programs.

## HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALS). For information about becoming a CALS first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth–Humanities/Literature/Arts: 6 credits
	• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth–Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
	Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.	
	Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.	
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	

or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
	CALS Capstone Learning Experience: included in the requirements for each CALS major (see "Major Requirements") (p. 48)	

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
<b>Core Mathematics</b>		
	Select one of the following (or may be satisfied by placement exam):	5-6
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171	Calculus with Algebra and Trigonometry I	
<b>Core Chemistry</b>		
	Select one of the following:	5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Introductory Biology</b>		
	Select one of the following options:	10
Option 1 (preferred):		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
Option 2:		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
Option 3:		
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
<b>Core Physics</b>		
	Select one of the following:	4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	

PHYSICS 207	General Physics	
<b>Plant Pathology Core</b>		
PL PATH 300	Introduction to Plant Pathology	4
PL PATH/BOTANY 332	Fungi	4
Another PI Path course above 300 <sup>1</sup>		3
<b>Capstone</b>		
PL PATH 590	Capstone in Plant Pathology	3
<b>Track</b>		
Select one of the following:		29-39
Plant-Microbe Biology Track		
Plant Health and Industry Track		
<b>Total Credits</b>		<b>67-83</b>

1

Not including PL PATH 375 Special Topics or independent study credits  
 –PL PATH 299 Independent Study, PL PATH 399 Coordinative Internship/  
 Cooperative Education, PL PATH 590 Capstone in Plant Pathology,  
 PL PATH 681 Senior Honors Thesis, PL PATH 682 Senior Honors Thesis, or  
 PL PATH 699 Special Problems.

## TRACKS

### PLANT-MICROBE BIOLOGY TRACK

Code	Title	Credits
<b>Additional Mathematics and Statistics</b>		
Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II <sup>1</sup>	
MATH 221	Calculus and Analytic Geometry 1	
Select one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2 <sup>2</sup>	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Additional Chemistry</b>		
Select one of the following options:		4-8
CHEM 343 & CHEM 344 & CHEM 345	Organic Chemistry I and Introductory Organic Chemistry Laboratory and Organic Chemistry II	
CHEM 341 & CHEM 342	Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory	
<b>Biology</b>		
Select one of the following options:		5-8
Option 1:		
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	
GENETICS 466	Principles of Genetics	
Option 2:		
Select two of the following:		
BIOCORE 485	Principles of Physiology	
BIOCORE 486	Principles of Physiology Laboratory	

BIOCORE 587	Biological Interactions	
<b>Additional Physics</b>		
Select one of the following:		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Plant Physiology</b>		
BOTANY 500	Plant Physiology	3-4
<b>Plant-Microbe Electives</b>		
Select 5 credits from the following:		5
BIOCHEM 501	Introduction to Biochemistry	
BOTANY 300	Plant Anatomy	
BOTANY 400	Plant Systematics	
	or BOTANY 401 Vascular Flora of Wisconsin	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
ENTOM/ ZOOLOGY 302	Introduction to Entomology	
Any PL PATH course above 300		
<b>Total Credits</b>		<b>29-39</b>

1

MATH 171 is a prerequisite for MATH 217.

2

MATH 221 Calculus and Analytic Geometry 1/MATH 217 Calculus with Algebra and Trigonometry II is a prerequisite for MATH 222 Calculus and Analytic Geometry 2

### PLANT HEALTH AND INDUSTRY TRACK

Code	Title	Credits
<b>Biology</b>		
GENETICS 466	Principles of Genetics	3
<b>Core</b>		
PL PATH 559	Diseases of Economic Plants	3-4
	or BOTANY 500 Plant Physiology	
<i>Plant Health and Industry Electives</i>		
Select 24 credits from at least two different departments from the following:		24
AGRONOMY 100	Principles and Practices in Crop Production	
AGRONOMY 300	Cropping Systems	
AGRONOMY 302	Forage Management and Utilization	
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology	
BOTANY 300	Plant Anatomy	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	
BOTANY 500	Plant Physiology	
BIOCHEM 501	Introduction to Biochemistry	
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	



C&E SOC/ SOC 222	Food, Culture, and Society
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History
C&E SOC/ AMER IND/ SOC 578	Poverty and Place
C&E SOC/ SOC 650	Sociology of Agriculture
ENTOM/ ENVIR ST 201	Insects and Human Culture—a Survey Course in Entomology
ENTOM/ ZOOLOGY 302	Introduction to Entomology
F&W ECOL/ ENVIR ST 100	Forests of the World
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species
F&W ECOL/ BOTANY 455	The Vegetation of Wisconsin
F&W ECOL/ BOTANY/ ZOOLOGY 460	General Ecology
F&W ECOL 550	Forest Ecology
HORT 120	Survey of Horticulture
HORT/ PL PATH 261	Sustainable Turfgrass Use and Management
HORT/ LAND ARC 263	Landscape Plants I
HORT 320	Environment of Horticultural Plants
HORT 345	Fruit Crop Production
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
NUTR SCI 132	Nutrition Today
NUTR SCI/ AN SCI/ DY SCI 311	Comparative Animal Nutrition
NUTR SCI 332	Human Nutritional Needs
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition
NUTR SCI/ BIOCHEM 510	Nutritional Biochemistry and Metabolism
NUTR SCI 540	Community Nutrition and Health Equity
PL PATH any course above 300 not already taken for another category	
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource

SOIL SCI 301	General Soil Science
SOIL SCI 322	Physical Principles of Soil and Water Management
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SOIL SCI 325	Soils and Landscapes
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management

### Business

Select 6 credits from the following:	6
ACCT I S 100	Introductory Financial Accounting
ACCT I S 211	Introductory Managerial Accounting
ACCT I S 300	Accounting Principles
ACCT I S 301	Financial Reporting I
ACCT I S 302	Financial Reporting II
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning
A A E 215	Introduction to Agricultural and Applied Economics
A A E 320	Agricultural Systems Management
A A E 322	Commodity Markets
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership
A A E 419	Agricultural Finance
A A E/ECON 421	Economic Decision Analysis
A A E/ECON 474	Economic Problems of Developing Areas
ECON 101	Principles of Microeconomics
ECON 102	Principles of Macroeconomics
LSC 270	Marketing Communication for the Sciences
M H R 300	Managing Organizations
M H R 305	Human Resource Management

### Total Credits

**36-37**

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Define and explain major concepts in the biological sciences including Plant Pathology.
2. Appropriately use biological instrumentation and laboratory techniques.
3. Explain and apply the scientific method including designing and conducting experiments and testing hypotheses.
4. Recognize the relationship between structure and function at all levels: molecular, cellular, organismal, and ecological.
5. Demonstrate a style appropriate for communicating scientific results in written and oral form.
6. Integrate math, physical sciences, and technology to answer biological questions using the scientific method.

## FOUR-YEAR PLAN

### FOUR-YEAR PLAN

#### SAMPLE PLANT PATHOLOGY FOUR-YEAR PLAN—PLANT-MICROBE BIOLOGY TRACK

##### Freshman

Fall	Credits	Spring	Credits
MATH 112, 113, or 114	3	MATH 113, 114, or 221	3-5
CHEM 103 or 109	4-5	CHEM 104	5
First Year Seminar	1	Gen Ed <sup>1</sup>	0-7
Gen Ed <sup>1</sup>	0-11		
	<b>8-20</b>		<b>8-17</b>

**Total Credits 16-37**

##### Sophomore

Fall	Credits	Spring	Credits
MATH 221	5	ZOOLOGY/BIOLOGY/ BOTANY 152 or BOTANY 130	5
CHEM 343	3	CHEM 344	2
Select one of the following:	5	CHEM 345	3
ZOOLOGY/ BIOLOGY/ BOTANY 151		Gen Ed <sup>1</sup>	2-5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102			
Gen Ed <sup>1</sup>	0-5		
	<b>13-18</b>		<b>12-15</b>

**Total Credits 25-33**

##### Junior

Fall	Credits	Spring	Credits
PL PATH 300		4 PHYSICS 104, 202, or 208	4
PHYSICS 103, 201, or 207		4 PL PATH/BOTANY 332	4
MATH 222 or STAT 371		4 GENETICS 466	3
Gen Ed <sup>1</sup>	0-6	Gen Ed <sup>1</sup>	2-5
	<b>12-18</b>		<b>13-16</b>

**Total Credits 25-34**

##### Senior

Fall	Credits	Spring	Credits
MICROBIO 303		3 BOTANY 500	3-4
MICROBIO 304		2 Capstone Experience	3
Core or Breadth Electives	3-8	Core or Breadth Electives	3-8
Gen Ed <sup>1</sup>	0-10	Gen Ed <sup>1</sup>	0-15
	<b>8-23</b>		<b>9-30</b>

**Total Credits 17-53**

1

Gen-Ed requirements include communications, ethnic studies, humanities, social science, or international studies. See Requirements tab for more details.

##### Note: Possible places where students may cut down on courses:

COMM-A placement test, COMM-B taken as ZOOLOGY/BIOLOGY/  
BOTANY 152, QR-A placement test, AP/IB credits (biology, social  
sciences, humanities, language, chemistry, physics, math, statistics)

## ADVISING AND CAREERS

### ADVISING

Students in plant pathology are assigned to both a professional staff advisor and one of our faculty advisors. Current faculty advisors include:

Caitilyn Allen  
Jeri Barak (lead faculty advisor)  
Amanda Gevens  
Mehdi Kabbage  
Paul Koch  
Richard Lankau

Details can be found on our faculty webpage (<https://plantpath.wisc.edu/faculty/>). Undergraduates in plant pathology are strongly encouraged to consult with an advisor before enrollment for the upcoming term.

For more information about the Plant Pathology major or the department in general, please see the Contact Information on this page. Students with questions regarding Plant Pathology lab positions - both paid and unpaid - should contact Professor Jeri Barak.

### CAREER OPPORTUNITIES

Please visit our Internship & Job Resources (<https://plantpath.wisc.edu/undergrad-overview/undergrad-student-internship-job-resources/>) page for information on career opportunities available to plant pathology

students. For more information on other academic, co-curricular, financial aid, and career services available to plant pathology students, please visit the CALS Career Services (<https://cals.wisc.edu/academics/undergraduate-students/career-services/>) page. Students in the major are welcome to make an individual appointment with an advisor to discuss career related topics such as career exploration, search strategies, graduate school, and review of application materials (resume, CV, letters, etc.).

Plant Pathologists, from all educational levels, are able to seek employment in a variety of areas. Some examples include:

- colleges and universities
- biotechnology companies
- state and federal agencies
- international agricultural research centers
- nurseries, greenhouses and garden centers
- non-governmental organizations
- golf courses, public parks and landscape maintenance companies
- diagnostic laboratories
- seed, plant production and tissue culture companies
- a variety of private consulting firms

If you would like to know more about what is Plant Pathology and how an undergraduate education in Plant Pathology can help you make an impact on the world around you, please check out the “Plant Pathology: taking you further than you ever imagined (<https://www.youtube.com/watch?v=mzTE3StOHIQ>)” video from the American Phytopathological Society (<http://www.apsnet.org/Pages/default.aspx>).

## PEOPLE

### FACULTY

Ahlquist, Paul  
 Allen, Caitilyn  
 Barak-Cunningham, Jeri  
 Bent, Andrew  
 Gevens, Amanda (chair)  
 Gluck-Thaler, Emile  
 Holland, Leslie  
 Handelsman, Jo  
 Kabbage, Mehdi  
 Koch, Paul  
 Lankau, Richard  
 Rakotondrafara, Aurelie  
 Silva, Erin  
 Solís-Lemus, Claudia  
 Smith, Damon

### AFFILIATED FACULTY

Ane', Jean-Michel (Bacteriology)  
 Groves, Russell (Entomology)  
 Havey, Michael (Horticulture)  
 Keller, Nancy (Medical Microbiology & Immunology)  
 Pringle, Ann (Botany)  
 Whitman, Thea (Soil Science)  
 Yu, Jae-Hyuk (Bacteriology)

### FACULTY ASSOCIATE

Hudelson, Brian

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

Undergraduates majoring in plant pathology at UW–Madison will find an inclusive, welcoming community where professors know their students and are able to provide guidance based on students’ specific academic and career goals. There are numerous opportunities to conduct research with internationally prominent faculty and to take part in the Wisconsin Idea, whereby faculty and students extend the knowledge developed at the university to stakeholders in Wisconsin and beyond for the betterment of society.

### INTERNSHIPS

Plant pathology offers paid research internships during summer term, as well as paid or credit-earning research opportunities year-round. Undergraduates get a firsthand view of how research is conducted and what it means to be a professional scientist. For more information on internship opportunities available to plant pathology students please visit our Internship & Job Resources (<https://plantpath.wisc.edu/undergrad-overview/undergrad-student-internship-job-resources/>) page.

### RESEARCH EXPERIENCE

Nearly all Plant Pathology undergraduates participate in field- or lab-based research with a professor. Research in the department has a long tradition of supporting grower needs. Many faculty are using the plethora of research tools available, including molecular biology and systematics, to answer questions that are directly applicable to grower groups. Please visit the department’s Research (<https://plantpath.wisc.edu/research/>) page for additional details on research activities in Plant Pathology.

### STUDENT ORGANIZATIONS

By joining the Plant Pathology Undergraduate Club, majors get to know their fellow students outside the classroom. The department provides resources for students to meet experts who lead discussions on a range of topics including cutting-edge research and technology, career options, and how to apply and compete for jobs.

Undergraduate students are also welcome to join What’s Eating My Plants (<https://www.facebook.com/wemp.uw/>) (WEMP). This organization, founded in 2010 by Plant Pathology graduate students, is dedicated to bridging the gap between the University and the greater Madison community. The students visit Family Science Nights at schools, community centers, and Saturday Science at the Wisconsin Institute for Discovery (WID) throughout the year.

### GLOBAL ENGAGEMENT

Plant Pathology students interested in studying issues on a global scale are encouraged to enroll in **Plant Path 311: Global Food Security**, which explores drivers of food insecurity: barriers to food production (pests, land availability, climate), barriers to food availability (politics, price, biofuels), and a greater need due to population growth. The Plant Pathology program is an excellent choice for students wishing to participate in a study abroad experience. Students can find more information about study abroad on the CALS study abroad advising page (<https://cals.wisc.edu/>

academics/undergraduate-students/international-programs/study-abroad-advising/).

### COMMUNITY ENGAGEMENT AND VOLUNTEERING

The UW-Madison Division of Extension provides statewide access to the resources and research of the University of Wisconsin, other universities and the United States Department of Agriculture, so that people of Wisconsin can learn, grow and succeed at all stages of life. The UW-Madison Division of Extension carries out the tradition of the Wisconsin Idea (<http://www.wisconsinidea.wisc.edu/>) – extending the boundaries of the university to the boundaries of the state. UW-Madison Extension and outreach activities support educational programs for farmers, businesses, communities, families and youth. More details can be found on the department Extension & Outreach (<https://plantpath.wisc.edu/extension-overview/>) page.

On campus, the Morgridge Center for Public Service (<https://morgridge.wisc.edu/>) provides resources to help students connect with volunteer opportunities based on their interests and goals.

## RESOURCES AND SCHOLARSHIPS

Department scholarships are available to Plant Pathology students and fellowships are available to support research work with a professor. Students across the College of Agricultural and Life Sciences receive more than \$1.25 million in scholarships annually. Learn more about college scholarships here (<https://cals.wisc.edu/academics/undergraduate-students/financing-your-education/cals-scholarships/>).

## SOIL SCIENCE

The Department of Soil Science provides undergraduate and graduate education in the environmental, agricultural, and natural resource aspects of soils. Areas of emphasis include soil ecology; soil erosion management; soil fertility and plant nutrition; soil physical and chemical characterization; biogeochemistry; urban soils; soil carbon; soil health; soil contaminants; waste management; pedology; and land-use analysis.

Soils are a critical natural resource in environmental protection, food and fiber production, turf and grounds management, rural and urban planning, and waste disposal. All of these facets are integrated into the department's course offerings and research programs. Soil Science majors prepare for professional, technical, consulting, and project positions in environmental sciences, ecology and restoration, crop and timber production, soil informatics, soil conservation, environmental pollution control, turf and grounds management, and land-use planning. Please contact the department for further information on career opportunities.

Students completing an undergraduate major in Soil Science earn a bachelor of science degree. A problem-solving "capstone course" that integrates knowledge gleaned from a diversity of courses is required.

The department also serves as the administrative home for the Environmental Sciences major in the College of Agricultural and Life Sciences.

## DEGREES/MAJORS/CERTIFICATES

- Environmental Sciences, B.S. (CALS) (p. 221)
- Soil Science, B.S. (p. 230)

## PEOPLE

### FACULTY

#### Associate Professor Francisco Arriaga

Applied Soil Physics, Soil and Water Management and Conservation: Conservation agriculture systems; development of conservation tillage practices that enhance soil quality, soil hydraulic properties, and plant water use through the adoption of cover crops and non-inversion tillage for traditional cropping systems.

#### Professor Nicholas Balster

Soil Ecology, Plant Physiological Ecology, and Education: Energy and material cycling in natural and anthropogenic soils including forests, grasslands, and urban ecosystems; stable isotope ecology; environmental education; nutrition management of nursery soils; tree physiology, production and response; ecosystem response to global change; urban ecosystem processes; invasive plant ecology; biodiversity.

#### Professor Phillip Barak

Soil Chemistry and Plant Nutrition: Nutrient cycling; nutrient recovery from wastewater; molecular visualization of soil minerals and molecules; soil acidification.

#### Assistant Professor Zachary Freedman

Soil microbiology, ecology and sustainability: Effects of environmental change on biogeochemical cycles; community ecology and trophic dynamics; forest soil ecology; soil organic matter dynamics; sustainable agroecosystems; bio-based product crop production on marginal lands.

#### Professor Alfred Hartemink

Pedology and Digital Soil Mapping: Pedology, soil carbon; digital soil mapping; tropical soils; history and philosophy of soil science.

#### Assistant Professor Jingyi Huang

Soil Physics, Proximal and Remote Sensing, Soil Monitoring and Management, Digital Soil Mapping: Application of proximal and remote sensing technologies for understanding the movement of water, heat, gas, and solutes in soils across different spatial and temporal scales; application of physical and empirical models for monitoring, mapping, and managing soil changes due to natural processes and human activities.

#### Assistant Professor Inna Popova

Environmental soil chemistry; understanding and mitigating the response of soil systems to the increased pressure of organic contaminants; application of biopesticides; development of novel separation and analyses methods for contaminants in environmental matrices.

### Professor Matthew Ruark

Soil Fertility and Nutrient Management: Soil fertility and management of grain biofuel, and vegetable crops; cover crop management; agricultural production and water quality; sustainability of dairy cropping systems; soil organic matter management.

### Professor Douglas Soldat

Turfgrass and Urban Soils: Turfgrass, urban soils, nutrient management, water resources, soil testing, landscape irrigation; soil contamination.

### Associate Professor Thea Whitman

Soil Ecology, Microbiology, and Biogeochemistry: Soil microbial ecology; organic matter decomposition and carbon stabilization; global environmental change; stable isotopes; linking functional significance of microbial communities with ecosystem processes; fire effects on soil carbon and microbes; management and policy.

### Assistant Professor Xia Zhu-Barker

Soil Biogeochemistry, Land Management, and Environmental Sustainability: Nitrogen and carbon biogeochemical cycles; Greenhouse gas and air pollutant emissions; Nitrate leaching and runoff; Innovative manure and nutrient utilization; Composting; Climate change mitigation and adaptation; Ecosystem services and carbon markets; Dairy environmental sustainability; Novel methods in isotopic techniques; Mechanistic exploration of soil-plant-microbe interactions; Process-based modelling. The specific research topics include:

- Microbial and abiotic processes involved in the production and consumption of nitrogen and carbon gases (N<sub>2</sub>O, NO<sub>x</sub>, NH<sub>3</sub>, CO<sub>2</sub>, CH<sub>4</sub>)
- Land management practices (e.g., compost, fertilizer, cover crops, irrigation, and tillage) that change soil health, nitrogen use efficiency, crop productivity, nitrogen losses, carbon turnover.
- Process oriented modelling of carbon/nitrogen turnover in agricultural ecosystems.
- Environmental changes on the sustainability and resilience of agricultural ecosystems especially dairy production systems.

to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in Environmental Sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences and the College of Letters & Science.

The Environmental Sciences major can be earned in either the College of Agricultural and Life Sciences (CALs) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CALs and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CALs, the major is housed in the Department of Soil Science.
- In L&S, the major is housed in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including Life Sciences Communication, Biology, Community & Environmental Sociology, Soil Science, foreign language/culture, and a number of other disciplines.

## HOW TO GET IN

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

## RESOURCES AND SCHOLARSHIPS

Financial support—in the form of approximately 15 scholarships, part-time employment, paid internships, and work-study programs—is available to qualified undergraduate students. The department also provides opportunities and limited financial support in the form of research assistantships to qualified students seeking M.S. and/or Ph.D. degrees (see the *Graduate Guide*).

## ENVIRONMENTAL SCIENCES, B.S. (CALs)

The Environmental Sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALS must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 48)		

### REQUIREMENTS FOR THE MAJOR

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of **15 credits** must be completed in the major that are not used elsewhere.

## MATHEMATICS AND STATISTICS

This major requires calculus. Prerequisites may need to be taken before enrollment in calculus. Refer to the Course Guide for information about calculus prerequisites.

Code	Title	Credits
Complete one of the following:		
MATH 221	Calculus and Analytic Geometry 1 (Recommended)	5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 211	Calculus	
Complete one of the following:		
STAT 240	Data Science Modeling I	3
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-13</b>

## CHEMISTRY

Code	Title	Credits
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	5-9
or CHEM 109	Advanced General Chemistry	
Complete one of the following:		
CHEM 341	Elementary Organic Chemistry	3
CHEM 343	Organic Chemistry I	
<b>Total Credits</b>		<b>8-12</b>

## BIOLOGY

Code	Title	Credits
Complete one of the following:		
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	10
BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
<b>Total Credits</b>		<b>10</b>

**PHYSICS**

Code	Title	Credits
Complete one of the following:		
PHYSICS 207	General Physics (Recommended)	4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
<b>Total Credits</b>		<b>4-5</b>

**MAJOR FOUNDATION**

Code	Title	Credits
Complete one of the following:		
ENVIR ST/ILS 126	Principles of Environmental Science	3-4
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOSCI/ ENVIR ST 106	Environmental Geology	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
SOIL SCI 250	Introduction to Environmental Science	
<b>Total Credits</b>		<b>3-4</b>

**MAJOR CORE**

Complete at least one course and 3 credits from each of these following areas:

**Ecology**

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Stream Ecology)	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3

F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

**Physical Environment**

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3

GEOG/ATM OCN/ ENVR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
COMP SCI 220	Data Science Programming I	4
ENVR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3

SOIL SCI/ENVR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3
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### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVR ST 343	Environmental Economics	3-4
AMER IND/ ENVR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVR ST 349	Climate Change Governance	3
ENVR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ ENVR ST 339	Environmental Conservation	4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ENVR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVR ST 537	Culture and Environment	4
GEOSCI/ ENVR ST 411	Energy Resources	3
HISTORY/ENVR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ ECON/ENVR ST/ POLI SCI 449	Government and Natural Resources	3-4

### MAJOR ELECTIVES

There are two ways to complete this requirement, either by distributing 12 credits across at least three categories, or by focusing those credits in a single category.<sup>1</sup>



**DISTRIBUTED ELECTIVES**

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

**Ecology**

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Stream Ecology)	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2

ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
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**Physical Environment**

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### FOCUSED ELECTIVES

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.<sup>1</sup>

#### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4

BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Stream Ecology)	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

#### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3

ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

## Geospatial Sciences

Code	Title	Credits
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

## Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST 349	Climate Change Governance	3

ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 411	Energy Resources	3
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

## 1

Students may consult their environmental sciences advisor regarding alternate ways to complete the major electives requirement.

**CAPSTONE**<sup>1</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
CIV ENGR 515	Hydroclimatology for Water Resources Management	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 668	Restoration Ecology	3
PL PATH 315	Plant Microbiomes	4
SOIL SCI 499	Soil Management	3

## 1

Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee. Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.
6. Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.
7. Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).
8. Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

## FOUR-YEAR PLAN

## FOUR-YEAR PLAN

SAMPLE ENVIRONMENTAL SCIENCES  
FOUR-YEAR PLAN

## First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
MATH 114 or 171 <sup>1</sup>	5	MATH 221, 217, or 211 <sup>1</sup>	5
SOIL SCI 250	3	Ethnic Studies	3
CALS First Year Seminar	1	COMM A Course	3-4
<b>13-14</b>		<b>16-17</b>	

## Second Year

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 (or BIOLOGY/BOTANY 130)	5	BIOLOGY/BOTANY/ ZOOLOGY 152 (or BIOLOGY/ZOOLOGY 101 & BIOLOGY/ZOOLOGY 102) <sup>2</sup>	5
CHEM 341 or 343	3	STAT 371	3
CALS International Studies	3	Humanities Breadth	3-4
Social Sciences Breadth	3-4	Elective (or COMM B Course)	3
<b>14-15</b>		<b>14-15</b>	

## Third Year

Fall	Credits	Spring	Credits
PHYSICS 207, 201, or 103	4-5	Major Core Courses	6
Major Core Courses	6	Humanities Breadth	3
Electives	5-7	Electives	6-7
<b>15-18</b>		<b>15-16</b>	

## Fourth Year

Fall	Credits	Spring	Credits
Major Electives	6	Major Electives	6
Capstone	2-4	Electives	9
Electives	6		
<b>14-16</b>		<b>15</b>	

## Total Credits 116-126

Students must complete at least 120 total credits to be eligible for graduation.

1

Sequence of MATH 112/MATH 113 (or MATH 114) and MATH 221 is recommended.

2

Completion of BIOLOGY/BOTANY/ZOOLOGY 152 fulfills the Communication Part B university requirement.

## ADVISING AND CAREERS

## ADVISING

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosci.wisc.edu/advising/>).

CALS undergraduate students interested in pursuing the Environmental Sciences major in the College of Agricultural and Life Sciences should contact Zach Wyman, [zwyman@njbalster.wisc.edu](mailto:zwyman@njbalster.wisc.edu) ([zwyman@wisc.edu](mailto:zwyman@wisc.edu)) or 608-265-2925.

L&S undergraduate students interested in pursuing the Environmental Sciences major in the College of Letters & Science should contact the faculty advisor.

## CAREERS

A major in Environmental Sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, park ranger, agricultural technician, air and water quality manager, environmental analyst, air pollution analyst, environmental consultant, environmental educator, GIS analyst, project manager, hazardous waste manager, hydrologist, environmental lawyer, soil conservation technician, and natural resource specialist. For more info about careers, please visit our website (<http://envirosci.wisc.edu/careers-internships/>).

## PEOPLE

## PROGRAM COMMITTEE

Nick Balster, Professor, Department of Soil Science (Co-Chair)  
Ken Ferrier, Associate Professor, Department of Geoscience  
Zac Freedman, Assistant Professor, Department of Soil Science  
Hazel M. Holden, Professor, Department of Biochemistry  
Erin Silva, Associate Professor, Department of Plant Pathology  
Daniel J. Vimont, Professor, Department of Atmospheric and Oceanic Sciences (Co-Chair)

## Staff Advisors

Zach Wyman, Academic Advising Manager (CALS)  
Sabrina Manero, Academic Advising Manager (L&S)

## WISCONSIN EXPERIENCE

As an interdisciplinary cross-college major, students majoring in Environmental Sciences are involved in a wide array of opportunities across campus. Students are highly encouraged to complement their coursework with out-of-classroom experiences such as research (<https://research.wisc.edu/information-for-undergraduate-students/>), volunteering (<https://morgridge.wisc.edu/>), internships (<https://envirosci.wisc.edu/careers-internships/>), and study abroad (<https://www.studyabroad.wisc.edu/>).

Many students are also involved in environmental and sustainability organizations (<https://sustainability.wisc.edu/student-organizations/>).

## SOIL SCIENCE, B.S.

The Department of Soil Science provides undergraduate and graduate education in the environmental, agricultural, and natural resource aspects of soils. Areas of emphasis include soil ecology; soil erosion management; soil fertility and plant nutrition; soil physical and chemical characterization; biogeochemistry; urban soils; soil carbon; soil health; soil contaminants; waste management; pedology; and land use analysis.

Soils are a critical natural resource in environmental protection, food and fiber production, turf and grounds management, rural and urban planning, and waste disposal. All of these facets are integrated into the department's course offerings and research programs. Soil science majors prepare for professional, technical, consulting, and project positions in environmental sciences, ecology and restoration, crop and timber production, soil informatics, soil conservation, environmental pollution control, turf and grounds management, and land-use planning. Please contact the department for further information on career opportunities.

Students completing an undergraduate major in soil science earn a bachelor of science degree. A problem-solving "capstone course" that integrates knowledge gleaned from a diversity of courses is required.

### HOW TO GET IN

To declare this major, students must be admitted to UW–Madison and the College of Agricultural and Life Sciences (CALs). For information about becoming a CALs first-year or transfer student, see *Entering the College* (p. 44).

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies. For more information, contact the advisor listed in the Contact Box for the major.

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

#### General Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF AGRICULTURAL AND LIFE SCIENCES REQUIREMENTS

In addition to the University General Education Requirements, all undergraduate students in CALs must satisfy a set of college and major requirements. Courses may not double count within university requirements (General Education and Breadth) or within college requirements (First-Year Seminar, International Studies, Science, and Capstone), but courses counted toward university requirements may also be used to satisfy a college and/or a major requirement; similarly, courses counted toward college requirements may also be used to satisfy a university and/or a major requirement.

### COLLEGE REQUIREMENTS FOR ALL CALS B.S. DEGREE PROGRAMS

Code	Title	Credits
Quality of Work: Students must maintain a minimum cumulative grade point average of 2.000 to remain in good standing and be eligible for graduation.		
Residency: Students must complete 30 degree credits in residence at UW–Madison after earning 86 credits toward their undergraduate degree.		
	First Year Seminar (p. 46)	1
	International Studies (p. 47)	3
	Physical Science Fundamentals	4-5
CHEM 103	General Chemistry I	
or CHEM 108	Chemistry in Our World	
or CHEM 109	Advanced General Chemistry	
	Biological Science	5
	Additional Science (Biological, Physical, or Natural)	3
	Science Breadth (Biological, Physical, Natural, or Social)	3
CALs Capstone Learning Experience: included in the requirements for each CALs major (see "Major Requirements") (p. 48)		

### MAJOR REQUIREMENTS

Courses may not double count within the major (unless specifically noted otherwise), but courses counted toward the major requirements may also be used to satisfy a university requirement and/or a college requirement. A minimum of 15 credits must be completed in the major that are not used elsewhere.

Code	Title	Credits
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**Mathematics and Statistics**

Select one of the following courses:		3-5
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MATH 112	Algebra	
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MATH 114	Algebra and Trigonometry	
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MATH 171	Calculus with Algebra and Trigonometry I <sup>1</sup>	
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Select one of the following courses:		3-4
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STAT 371	Introductory Applied Statistics for the Life Sciences (recommended)	
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STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
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**Chemistry**

Select one of the following options:		5-9
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Option 1:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
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Option 2:

CHEM 109	Advanced General Chemistry	
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**Biology**

Select one of the following options:		10
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Option 1 (recommended):

BOTANY/ BIOLOGY 130	General Botany <sup>2</sup>	
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ZOOLOGY/ BIOLOGY 101	Animal Biology	
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ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
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Option 2:

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
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BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
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Option 3:

BIOCORE 381	Evolution, Ecology, and Genetics	
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BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
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BIOCORE 383	Cellular Biology	
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BIOCORE 384	Cellular Biology Laboratory	
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**Core**

SOIL SCI 301 & SOIL SCI 302	General Soil Science and Meet Your Soil: Soil Analysis and Interpretation Laboratory	4
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SOIL SCI 325	Soils and Landscapes	3
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Select one of the following courses:		3
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SOIL SCI 321	Soils and Environmental Chemistry	
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SOIL SCI 621	Soil Chemistry	
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SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management	
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SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants	
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Select one of the following courses:		3
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SOIL SCI 322	Physical Principles of Soil and Water Management	
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SOIL SCI 622	Soil Physics	
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Select one of the following courses:		3
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SOIL SCI/ PL PATH 323	Soil Biology	
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SOIL SCI/ MICROBIO 425	Environmental Microbiology	
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SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry	
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**Specialization**

Students must complete 1 of 3 specializations: 1.	28-51
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Environmental Soil Science 2. Soil and Food Systems 3.	
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Turf and Grounds (see below)	
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**Capstone<sup>3</sup>**

Select one of the following courses:		3-4
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SOIL SCI 499	Soil Management <sup>4</sup>	
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ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	
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F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	
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<b>Total Credits</b>	<b>68-99</b>
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1

Note that MATH 171 &amp; MATH 217 must be taken as a sequence.

2

BOTANY/BIOLOGY 130 is required by the Turf and Grounds Track.

3

Consult advisor to request permission to substitute another course for the Capstone requirement. Course must meet CALS Capstone Characteristics described in the Undergraduate Catalog and be approved by advisor and 116 Ag Hall.

4

SOIL SCI 499 capstone required for Turf and Grounds Track.

## SPECIALIZATIONS WITHIN THE MAJOR ENVIRONMENTAL SOIL SCIENCE

Code	Title	Credits
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**Mathematics**

Select one of the following courses:		5
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MATH 211	Calculus	
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MATH 221	Calculus and Analytic Geometry 1	
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MATH 217	Calculus with Algebra and Trigonometry II	
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**Physics**

Select one of the following courses:		4-5
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PHYSICS 103	General Physics (recommended)	
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PHYSICS 104	General Physics	
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PHYSICS 207	General Physics	
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PHYSICS 208	General Physics	
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**Chemistry**

Select one of the following options:		4-8
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Option 1:	
CHEM 311	Chemistry Across the Periodic Table
CHEM 327 or CHEM 329	Fundamentals of Analytical Science Fundamentals of Analytical Science
Option 2:	
CHEM 341 & CHEM 342	Elementary Organic Chemistry and Elementary Organic Chemistry Laboratory
Option 3:	
CHEM 343 & CHEM 344 & CHEM 345	Organic Chemistry I and Introductory Organic Chemistry Laboratory and Organic Chemistry II

**Physical Environment 6-8**

Select one course from the following:	
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOSCI/ ENVIR ST 106	Environmental Geology
GEOSCI 202	Introduction to Geologic Structures
SOIL SCI 131	Earth's Soil: Natural Science and Human Use
SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management

Select at least one course from the following:	
GEOG/CIV ENGR 320	Geomorphology
ATM OCN/ GEOG 323	Science of Climate Change
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SOIL SCI/ F&W ECOL/ HORT 524	Urban Soil and Environment
SOIL SCI 621	Soil Chemistry
SOIL SCI 622	Soil Physics
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants
AGRONOMY/ATM OCN/SOIL SCI 532	Environmental Biophysics
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
GEOG 578	GIS Applications

**Living Environment 9-14**

Select one course from the following:

AGRONOMY 100	Principles and Practices in Crop Production
AGRONOMY 300	Cropping Systems
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
HORT 345	Fruit Crop Production
HORT 370	World Vegetable Crops
AGROECOL 400	Study Abroad in Agroecology
SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology
SOIL SCI/ MICROBIO 425	Environmental Microbiology
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry

Select one course from the following:	
BOTANY/F&W ECOL/ZOOLOGY 460	General Ecology
F&W ECOL 550 & F&W ECOL 551	Forest Ecology and Forest Ecology Lab
GENETICS 466	Principles of Genetics
BOTANY 500	Plant Physiology
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry
GENETICS 545	Genetics Laboratory
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects

Select one of the following options:

<i>Option 1:</i>	
MICROBIO 101 & MICROBIO 102	General Microbiology and General Microbiology Laboratory
<i>Option 2:</i>	
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory
<i>Option 3:</i>	
BOTANY 330 & BOTANY/ PL PATH 332	Algae and Fungi

**Environmental Policy, Management, and Analysis 9-12**

Select one of the following courses:	
SOIL SCI/ENVIR ST 101	Forum on the Environment
ENVIR ST 112	Environmental Studies: Social Science Perspectives



ENVIR ST 113	Environmental Studies: Environmental Humanities
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG 127	Physical Systems of the Environment
A A E/F&W ECOL 652	Decision Methods for Natural Resource Managers
SOIL SCI/ENVIR ST 575	Assessment of Environmental Impact
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes

Select one of the following courses:

ECON 101	Principles of Microeconomics
ECON 111	Principles of Economics- Accelerated Treatment
A A E 215	Introduction to Agricultural and Applied Economics
A A E/ ENVIR ST 244	The Environment and the Global Economy
A A E 319	The International Agricultural Economy

Select one of the following courses:

ENVIR ST/ F&W ECOL/ G L E/GEOG/ GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
ENVIR ST/ F&W ECOL/ G L E/GEOG/ GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing
ENVIR ST/LAND ARC/SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources

**Total Credits**

**37-52**

## SOIL AND FOOD SYSTEMS

**Code Title Credits**

**Physical Environment 8-10**

Select one of the following courses:

ATM OCN 100	Weather and Climate
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
ATM OCN 101	Weather and Climate
ATM OCN/ GEOG 323	Science of Climate Change
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOSCI 100	Introductory Geology: How the Earth Works
GEOSCI/ ENVIR ST 106	Environmental Geology

SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SOIL SCI 321	Soils and Environmental Chemistry
SOIL SCI/ AGRONOMY/ HORT 326	Plant Nutrition Management
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
SOIL SCI/ F&W ECOL/ HORT 524	Urban Soil and Environment

Select one of the following courses:

F&W ECOL/ ZOOLOGY 565	Principles of Landscape Ecology
GEOG/CIV ENGR 320	Geomorphology
GEOG 578	GIS Applications
GEOG 579	GIS and Spatial Analysis
SOIL SCI 131	Earth's Soil: Natural Science and Human Use
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry
SOIL SCI 621	Soil Chemistry
SOIL SCI 622	Soil Physics
SOIL SCI/ BOTANY/ HORT 626	Mineral Nutrition of Plants

Select one of the following courses:

ENVIR ST/ F&W ECOL/ G L E/GEOG/ GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
ENVIR ST/ F&W ECOL/ G L E/GEOG/ GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing
ENVIR ST/LAND ARC/SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources

**Economics and Food Management**

**6-8**

Select one of the following courses:

ACCT I S 100	Introductory Financial Accounting
ACCT I S 211	Introductory Managerial Accounting
ACCT I S 300	Accounting Principles
ACCT I S 301	Financial Reporting I
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning
A A E 215	Introduction to Agricultural and Applied Economics
A A E 320	Agricultural Systems Management
A A E 322	Commodity Markets

A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 474	Economic Problems of Developing Areas	
M H R 305	Human Resource Management	
M H R 610	Compensation: Theory and Administration	
M H R 611	Strategic Talent Management	
M H R 612	Labor-Management Relations	
Select one of the following courses:		
ECON 101	Principles of Microeconomics	
ECON 111	Principles of Economics- Accelerated Treatment	
ACCT I S 100	Introductory Financial Accounting	
ACCT I S 211	Introductory Managerial Accounting	
ACCT I S 300	Accounting Principles	
ACCT I S 301	Financial Reporting I	
ACCT I S/ LAW 329	Taxation: Concepts for Business and Personal Planning	
A A E 320	Agricultural Systems Management	
A A E 322	Commodity Markets	
A A E 323	Cooperatives and Alternative Forms of Enterprise Ownership	
A A E 419	Agricultural Finance	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 474	Economic Problems of Developing Areas	
SOIL SCI/ MICROBIO 425	Environmental Microbiology	
SOIL SCI/ MICROBIO 523	Soil Microbiology and Biochemistry	
M H R 305	Human Resource Management	
M H R 610	Compensation: Theory and Administration	
M H R 611	Strategic Talent Management	
M H R 612	Labor-Management Relations	
<b>Specialized Sciences (complete all) <sup>1</sup></b>		
AGRONOMY 100	Principles and Practices in Crop Production	3-4
or HORT 120	Survey of Horticulture	
AGRONOMY 300	Cropping Systems	3
or AGRONOMY 302	Forage Management and Utilization	
or HORT 345	Fruit Crop Production	
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
PL PATH 300	Introduction to Plant Pathology	3-4
or ENTOM 351	Principles of Economic Entomology	
A A E 215	Introduction to Agricultural and Applied Economics	3-4
or A A E/ ENVIR ST 244	The Environment and the Global Economy	
or A A E 319	The International Agricultural Economy	

or A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
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**Total Credits 29-36**

<sup>1</sup> Some courses may fulfill GEN ED requirements.

## TURF AND GROUNDS

Code	Title	Credits
<b>Physical Environment</b>		
Select one of the following courses:		
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOSCI 100	Introductory Geology: How the Earth Works	
GEOSCI/ ENVIR ST 106	Environmental Geology	
<b>Core Turf and Grounds Sciences (complete all)</b>		
ACCT I S 300	Accounting Principles	3
BOTANY/ BIOLOGY 130	General Botany <sup>1</sup>	5
HORT/PL PATH 261	Sustainable Turfgrass Use and Management	2
M H R 305	Human Resource Management	3
PL PATH 300	Introduction to Plant Pathology	4
HORT/SOIL SCI 332	Turfgrass Nutrient and Water Management	3
Specialized Sciences 7		
Select 7 credits from the following courses:		
BOTANY/F&W ECOL 402	Dendrology	
HORT/ LAND ARC 263	Landscape Plants I	
BSE 243	Operating and Management Principles of Off-Road Vehicles	
BSE 301	Land Information Management	
ENTOM 351	Principles of Economic Entomology	
HORT 120	Survey of Horticulture	
HORT/ PL PATH 262	Turfgrass Management Laboratory	
<sup>1</sup> Counts toward Soil Science Major Biology requirements, above.		
<b>HONORS IN THE MAJOR</b>		
Students admitted to the university and to the College of Agricultural and Life Sciences are invited to apply to be considered for admission to the CALS Honors Program.		

**Admission Criteria for New First-Year Students:**

- Complete program application including essay questions

**Admission Criteria for Transfer and Continuing UW-Madison Students:**

- UW-Madison cumulative GPA of at least 3.25
- Complete program application including essay questions

**HOW TO APPLY**

The application is available on the CALS Honors Program website (<https://cals.wisc.edu/academics/undergraduate/current-students/honors-program/>). Applications are accepted at any time.

New first-year students with accepted applications will automatically be enrolled in Honors in Research. It is possible to switch to Honors in the Major in the student's first semester on campus after receiving approval from the advisor for that major. Transfer and continuing students may apply directly to Honors in Research or Honors in the Major (after approval from the major advisor).

**REQUIREMENTS**

All CALS Honors programs have the following requirements:

- Earn at least a cumulative 3.25 GPA at UW-Madison (some programs have higher requirements)
- Complete the program-specific requirements listed below
- Submit completed thesis documentation to CALS Academic Affairs

**REQUIREMENTS**

To earn Honors in the Major, students are required to take at least 20 honors credits. In addition, students must take SOIL SCI 681 Senior Honors Thesis and SOIL SCI 682 Senior Honors Thesis when completing their thesis project; please see the Honors in Major Checklist (<http://www.cals.wisc.edu/academics/undergraduate-programs/get-involved/honors-program/honors-in-the-major/>) for more information.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. To instill in our undergraduate majors the knowledge base required for them to intelligently discuss, debate and communicate those aspects of soil science pertinent to their degree, specialization and career goals.
2. To provide our undergraduates with the skills and experience needed to identify and solve problems and issues of the types they may encounter in their professions.
3. To ensure that our undergraduates possess an awareness of and an appreciation for the potential impacts of soil, water, crop and waste management practices, and land use on the quality of the environment.

**FOUR-YEAR PLAN****FOUR-YEAR PLAN  
SAMPLE SOIL SCIENCE FOUR-YEAR PLAN  
–SOIL & FOOD SYSTEMS SPECIALIZATION;  
TURF AND GROUND SPECIALIZATION****Freshman**

Fall	Credits	Spring	Credits
CHEM 103 or 109		4-5 CHEM 104	5
MATH 114 or 171		5 ETHNIC STUDIES	3
FIRST YEAR SEMINAR		1 ELECTIVES	7-8
COMM-A/ELECTIVES	3-4		
	<b>13-15</b>		<b>15-16</b>

**Total Credits 28-31****Sophomore**

Fall	Credits	Spring	Credits
BOTANY/BIOLOGY 130 or ZOOLOGY 151 <sup>1</sup>		5 ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	5
SOIL SCI 301		3 COMM-B/ELECTIVES	3
INTERNATIONAL STUDIES		3 SPECIALIZATION COURSE	4-5
ELECTIVES	3 ELECTIVES		3
	<b>14</b>		<b>15-16</b>

**Total Credits 29-30****Junior**

Fall	Credits	Spring	Credits
SOIL SCI 321		3 SOIL SCI 322	3
SOIL SCI 325		3 SOIL SCI/PL PATH 323	3
STATISTICS		3 SPECIALIZATION COURSES/ELECTIVES	9-10
SPECIALIZATION COURSE/ELECTIVES	3		
	<b>12</b>		<b>15-16</b>

**Total Credits 27-28**

<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
SOIL SCI 499 (Capstone)		3 SPECIALIZATION COURSES/ELECTIVES	15-16
SPECIALIZATION COURSES/ELECTIVES	12		
	<b>15</b>		<b>15-16</b>

**Total Credits 30-31**

1

BOTANY/BIOLOGY 130 and ZOOLOGY/BIOLOGY 101/ZOOLOGY/BIOLOGY 102 are required for Turf and Grounds Track.

## SAMPLE SOIL SCIENCE FOUR-YEAR PLAN—ENVIRONMENTAL SOIL SCIENCE SPECIALIZATION

**Freshman**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CHEM 103 or 109		4-5 CHEM 104	5
MATH 114 or 171		5 ETHNIC STUDIES	3
FIRST YEAR SEMINAR		1 ELECTIVES	7-8
COMM-A/ELECTIVES	3-4		
	<b>13-15</b>		<b>15-16</b>

**Total Credits 28-31****Sophomore**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
BOTANY/BIOLOGY 130 or ZOOLOGY 151		5 ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	5
SOIL SCI 301		4 Specialization Course	4-5
INTERNATIONAL STUDIES		3 ELECTIVES	3
ELECTIVES	3	3 COMM-B/ELECTIVES	3
	<b>15</b>		<b>15-16</b>

**Total Credits 30-31****Junior**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
SOIL SCI 321		3 SOIL SCI 322	3
SOIL SCI 325		3 SOIL SCI/PL PATH 323	3
SPECIALIZATION COURSES/ELECTIVES	3	3 SPECIALIZSTION COURSES/ELECTIVES	9-10
STATISTICS	3		
	<b>12</b>		<b>15-16</b>

**Total Credits 27-28****Senior**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
SOIL SCI 499 (Capstone)		3 SPECIALIZATION COURSES/ELECTIVES	15-16

SPECIALIZATION COURSES/ELECTIVES	12	
	<b>15</b>	<b>15-16</b>

**Total Credits 30-31**

## ADVISING AND CAREERS

### ADVISING AND CAREERS

Students are assigned a faculty advisor once they declare the major. Prospective students should contact the undergraduate coordinator, Julie Garvin (jgarvin2@wisc.edu, 608-262-2239), with questions.

Most of our graduates find employment in a diversity of private and commercial enterprises and governmental agencies. Recent examples of employment include laboratory technician, turf and grounds manager, agrichemical sales representative, environmental scientist, land use planner, land zoning administrator, project manager, wetlands delineator, and hydrogeologist. Approximately 12% of our undergraduates pursue advanced degrees.

## PEOPLE

### FACULTY

**Associate Professor Francisco Arriaga**

Applied Soil Physics, Soil and Water Management and Conservation: Conservation agriculture systems; development of conservation tillage practices that enhance soil quality, soil hydraulic properties, and plant water use through the adoption of cover crops and non-inversion tillage for traditional cropping systems.

**Professor Nicholas Balster**

Soil Ecology, Plant Physiological Ecology, and Education: Energy and material cycling in natural and anthropogenic soils including forests, grasslands, and urban ecosystems; stable isotope ecology; environmental education; nutrition management of nursery soils; tree physiology, production and response; ecosystem response to global change; urban ecosystem processes; invasive plant ecology; biodiversity.

**Professor Phillip Barak**

Soil Chemistry and Plant Nutrition: Nutrient cycling; nutrient recovery from wastewater; molecular visualization of soil minerals and molecules; soil acidification.

**Assistant Professor Zachary Freedman**

Soil microbiology, ecology and sustainability: Effects of environmental change on biogeochemical cycles; community ecology and trophic dynamics; forest soil ecology; soil organic matter dynamics; sustainable agroecosystems; bio-based product crop production on marginal lands.

**Professor Alfred Hartemink**

Pedology, Digital Soil Mapping: Pedology; soil carbon; digital soil mapping; tropical soils; history and philosophy of soil science.

**Assistant Professor Jingyi Huang**

Soil Physics, Proximal and Remote Sensing, Soil Monitoring and Management, Digital Soil Mapping: Application of proximal and remote sensing technologies for understanding the movement of water, heat, gas, and solutes in soils across different spatial and temporal scales; application of physical and empirical models for monitoring, mapping, and managing soil changes due to natural processes and human activities.

**Assistant Professor Inna Popova**

Environmental soil chemistry; understanding and mitigating the response of soil systems to the increased pressure of organic contaminants; application of biopesticides; development of novel separation and analyses methods for contaminants in environmental matrices.

**Professor Matthew Ruark**

Soil Fertility and Nutrient Management: Soil fertility and management of grain biofuel, and vegetable crops; cover crop management; agricultural production and water quality; sustainability of dairy cropping systems; soil organic matter management.

**Professor Douglas Soldat**

Turfgrass and Urban Soils: Turfgrass, urban soils, nutrient management, water resources, soil testing, landscape irrigation; soil contamination.

**Assistant Professor Thea Whitman**

Soil Ecology, Microbiology, and Biogeochemistry: Soil microbial ecology; organic matter decomposition and carbon stabilization; global environmental change; stable isotopes; linking functional significance of microbial communities with ecosystem processes; fire effects on soil carbon and microbes; management and policy.

**Assistant Professor Xia Zhu-Barker**

Soil Biogeochemistry, Land Management, and Environmental Sustainability: Nitrogen and carbon biogeochemical cycles; greenhouse gas and air pollutant emissions; nitrate leaching and runoff; innovative manure and nutrient utilization; composting; climate change mitigation and adaptation; ecosystem services and carbon markets; dairy environmental sustainability; novel methods in isotopic techniques; mechanistic exploration of soil-plant-microbe interactions; process-based modelling. The specific research topics include:

- Microbial and abiotic processes involved in the production and consumption of nitrogen and carbon gases ( $N_2O$ ,  $NO_x$ ,  $NH_3$ ,  $CO_2$ ,  $CH_4$ )
- Land management practices (e.g., compost, fertilizer, cover crops, irrigation, and tillage) that change soil health, nitrogen use efficiency, crop productivity, nitrogen losses, carbon turnover.
- Process oriented modelling of carbon/nitrogen turnover in agricultural ecosystems.
- Environmental changes on the sustainability and resilience of agricultural ecosystems especially dairy production systems.

**WISCONSIN EXPERIENCE**

Students majoring in soil science are involved in an array of opportunities across campus. Students are highly encouraged to complement their coursework with out-of-classroom experiences such as research (<https://soils.wisc.edu/research-programs/>), volunteering (<https://morgridge.wisc.edu/>), internships (<https://cals.wisc.edu/academics/undergraduate-students/outside-the-classroom/internships/>), and study abroad (<https://www.studyabroad.wisc.edu/>).

**RESOURCES AND SCHOLARSHIPS****RESOURCES AND SCHOLARSHIPS**

Financial support—in the form of approximately 15 scholarships, part-time employment, paid internships, and work-study programs—is available to qualified undergraduate students. The department also provides opportunities and limited financial support in the form of research assistantships to qualified students seeking M.S. and/or Ph. D. degrees—see the Graduate Guide (<http://guide.wisc.edu/graduate/>).

**COLLEGE OF ENGINEERING**

Engineers design products and develop solutions to society's national and global challenges. The variety of engineering projects requires engineers to have an understanding of people and their values. Engineers blend their knowledge and practical experience with their communication and teamwork skills to work as members of diverse, multidisciplinary teams. Engineers frequently make decisions affecting the development of society and the direction it will take.

The University of Wisconsin–Madison College of Engineering is one of the best places in the world for an engineering education. The outstanding curriculum and the world-class faculty focus on providing students with the technological tools, resources, and knowledge to develop solutions to problems in fields ranging from medicine to energy to manufacturing—and many more.

In the classroom and in the lab, students study and grow their skills, yet they also enrich their academic experience outside of the classroom through opportunities such as international study, field research, internships, laboratory experience, and entrepreneurial opportunities.

Learning isn't confined to the classroom. It can happen anywhere—in the Engineering Hall study lounge, in the state-of-the-art makerspace, or in casual conversation on Engineering Mall. As Badger engineers, students are surrounded by some of the smartest, most innovative people in the world. The faculty do more than teach. They immerse students in interdisciplinary activities and offer real design challenges—and students can actually design and build products that solve those challenges.

In a college internationally renowned for its research, there also are many opportunities for undergraduate students to work directly with faculty members to propose and conduct research, and to publish and patent their results.

The Wisconsin Experience is not limited to academics. Across the university, there are many ways to get involved in the campus community.

From the UW Marching Band to student government, students can find a home at UW.

A College of Engineering education will not only offer students the time of their lives, it will also prepare them to change life as we know it.

## DEGREES/MAJORS/CERTIFICATES

- Architecture, Certificate (p. 266)
- Biology in Engineering for Engineering Majors, Certificate (p. 249)
- Biomedical Engineering, B.S. (p. 251)
- Chemical Engineering, B.S. (p. 259)
- Civil Engineering, B.S. (p. 267)
- Computer Engineering, B.S. (p. 290)
- Electrical Engineering, B.S. (p. 296)
- Engineering Data Analytics, Certificate (p. 311)
- Engineering for Energy Sustainability, Certificate (p. 344)
- Engineering Mechanics, B.S. (p. 324)
- Engineering Physics, B.S. (p. 345)
- Engineering Thermal Energy Systems, Certificate (p. 335)
- Environmental Engineering, B.S. (p. 277)
- Geological Engineering, B.S. (p. 282)
- Industrial Engineering, B.S. (p. 312)
- International Engineering, Certificate (p. 305)
- Manufacturing Engineering, Certificate (p. 336)
- Materials Science and Engineering, B.S. (p. 318)
- Mechanical Engineering, B.S. (p. 337)
- Naval Science, BNS (p. 305)
- Nuclear Engineering Materials, Certificate (p. 351)
- Nuclear Engineering, B.S. (p. 352)
- Technical Communication, Certificate (p. 307)

## PEOPLE

"If you think of the challenges that we face—energy, transportation, clean air and water, building the next generation of computing and communications technologies as we use up our raw materials—those are problems engineers must address. I'd like our students and faculty to take the leadership role in solving those problems in their classrooms and research."

—Dean Ian Robertson

## COLLEGE OF ENGINEERING LEADERSHIP ([HTTPS://ENGINEERING.WISC.EDU/ABOUT/LEADERSHIP/](https://engineering.wisc.edu/about/leadership/))

Dean: Ian M. Robertson  
 Executive Associate Dean: David A. Noyce  
 Associate Dean and Chief Financial Officer: Adam Whitehorse  
 Associate Dean for Inclusion, Equity and Diversity: Chris Castro  
 Associate Dean for Academic Affairs: Kathy Prem  
 Associate Dean for Research and Graduate Affairs: Oliver Schmitz  
 Associate Dean for Interdisciplinary Professional Programs: Edward G. Borbely  
 Associate Dean for Advancement: Cathleen Walters

## ENTERING THE COLLEGE

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/>)

undergraduate-student-advising/) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## POLICIES AND REGULATIONS

### REGULATIONS

Official regulations regarding enrollment, scholarship, and graduation for undergraduates in the College of Engineering.

A printer-friendly PDF can be found on the College of Engineering Regulations page (<https://engineering.wisc.edu/student-services/undergraduate-regulations/>).

### ADMISSIONS

#### 1. Direct Admission

New students are admitted directly to the degree program (major) of their choice or to the College of Engineering as Engineering Undecided. Progression requirements must then be satisfied as described in Regulations 3–7.

#### 2. Degree Programs (Majors)

Biomedical Engineering (BME)  
 Chemical Engineering (CHE)  
 Civil Engineering (CEE)  
 Computer Engineering (CMPE)  
 Electrical Engineering (EE)  
 Engineering Mechanics (EM)  
 Engineering Physics (EP)  
 Environmental Engineering (EnvE)  
 Geological Engineering (GLE)  
 Industrial Engineering (IE)  
 Materials Science and Engineering (MSE)  
 Mechanical Engineering (ME)  
 Nuclear Engineering (NE)

### PROGRESSION

#### 3. First Year Progression Requirements

To automatically progress in a College of Engineering (CoE) degree program (major) after direct admission or to switch between engineering degree programs, students must complete the following requirements after their first two semesters of residency at UW–Madison:

- A. 24 credits completed at UW–Madison. Special topics, independent study, seminar, pass/fail, and credit/no credit courses will not be included in the 24 credits except for required English as a Second Language courses.
- B. General Education Communications Part A (Comm A) requirement. If Comm A is not completed as a graded course at UW–Madison (i.e., completed through placement test, AP/IB, or transfer credit), then a liberal studies course of at least 3 credits with a breadth designation of Humanities, Literature, or Social Sciences must be taken on a graded basis at UW–Madison.
- C. Introduction to Engineering: course specified by degree program or INTEREGR 170 Design Practicum for Engineering Undecided students.
- D. Math course sequence through MATH 222 Calculus and Analytic Geometry 2 or MATH 276 Topics in Calculus II

- E. Four core courses, required for engineering degree programs (majors), completed at UW–Madison, as defined below:

1. **Math:** A minimum of two math courses numbered MATH 217 Calculus with Algebra and Trigonometry II or above; or one math course 300 level or above. If the math requirement for the degree program (major) is complete or the student has completed the calculus sequence through MATH 234 Calculus--Functions of Several Variables, then additional math courses numbered MATH 217 Calculus with Algebra and Trigonometry II or above or additional courses from the science requirement in Regulation 3.E.2. can be taken to complete the four core course requirement. Excludes MATH 228 WES Calculus Supplement, MATH/HIST SCI 473 History of Mathematics, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

2. **Science:** A minimum of two science courses required for engineering degree programs (majors) as defined below. If the math and science requirements for the degree program are complete, then departmental engineering courses 200 level and above can be taken to complete the four core course requirement. Excludes EPD, InterEGR, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

- For Chemical Engineering majors, the following science requirements apply:

- i. One course must be CHEM 104 General Chemistry II or higher
- ii. One course must be PHYSICS 201 General Physics/E M A 201 Statics or higher

*If above two requirements are completed, select from additional science courses below.*

- For majors in Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Mechanics, Engineering Physics, Environmental Engineering, Geological Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, and Nuclear Engineering, the following science requirements apply:
  - i. One course must be either CHEM 104 General Chemistry II or higher OR PHYSICS 201 General Physics/E M A 201 Statics or higher
  - ii. One other science course, from the following:
    - Chemistry, all classes
    - E M A 201 Statics, E M A 202 Dynamics, M E 240 Dynamics
    - PHYSICS 201 General Physics and above
    - Statistics, calculus-based
    - E P 271 Engineering Problem Solving I
    - COMP SCI 200 Programming I, COMP SCI 220 Data Science Programming I, or COMP SCI 300 Programming II or above, excluding COMP SCI 304 WES-CS Group Meeting

- Excludes special topics, independent study, seminar, pass/fail, and credit/no credit courses

F. Core and Overall GPA requirements must be satisfied as defined by CoE departments for each engineering degree program (major) (Progression - College of Engineering - University of Wisconsin-Madison (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>)). All graded UW-Madison courses referenced in E.1. and E.2. above and any departmental engineering courses level 200 or above will be counted in the Core GPA (excludes EPD, InterEGR, special topics, independent study, and seminar courses). All graded UW-Madison courses are counted in the Overall GPA. For one and only one of these core courses that a student has repeated, the more recent of the two grades will be used in the calculation of Core and Overall GPAs. Students may not be on academic probation for GPA reasons for automatic completion of first year progression requirements.

Students who do not meet the first year progression requirements to automatically progress in a degree program (major) can be considered for non-automatic progression (Regulation 4) or extension (Regulation 5).

#### 4. Consideration for Non-Automatic Progression

Students who do not meet progression GPAs but meet all other progression requirements will be considered for progression in degree program (major). The consideration process includes review of written statement, rigor of completed courses, and grade trends.

#### 5. Extension for First Year Progression Requirements

- Students who will not meet progression requirements due to University of Wisconsin placement and/or assessment tests (math and ESL) will be granted a one semester extension up to their fourth semester if they are making satisfactory progress in a degree program (major).
- Students who do not meet the requirements in Regulation 3 may apply for a one semester extension but not beyond their fourth semester. Students granted extensions will be considered for non-automatic progression in degree program (major). The consideration process includes review of written statement, rigor of completed courses, and grade trends. Extensions will be evaluated only in cases where it is mathematically possible during the one semester extension to meet progression GPAs for intended program.

#### 6. Diversity of Student Body

When the number of non-automatic considerations and/or applications for admission to a degree program (major) exceed the capacity of that program, progression and admission will be limited to capacity. In order to implement the University's goals of achieving a heterogeneous and diverse student body, selection of students under consideration or admission to a program operating at capacity will be based on demographic background, written statement, rigor of completed courses, and grade trends.

#### 7. Progression Requirement Completion and Extension Application

Students are required to submit to the dean's office an application for progression for a degree program (major) or an application for an extension by the deadline. Deadlines will be posted on the College of Engineering website at Progression Requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) and emailed to students in the College of Engineering.

[engineering.wisc.edu/student-services/undergraduate-student-advising/progression/](https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/)) and emailed to students in the College of Engineering.

## REGISTRATION

### 8. Definitions

- Full-time student: One carrying a minimum credit load of 12 credits. All students are expected to be full-time unless they have the permission of the dean to be part-time. A student carrying less than the minimum credit load without the dean's permission will be placed on part-time warning at the end of the semester.
- Part-time student: One who has the dean's permission to carry less than the minimum credit load (Regulation 9.F.).
- Semester: A term of 15 weeks minimum duration.
- Session: A term of less than 15 weeks duration (e.g., summer session or intersession).
- Modular Course: A course that is offered during a semester, but which lasts fewer than 15 weeks.

### 9. Credit Load Constraints

- Maximum credit load: 20 enrolled credits per semester.
- Minimum credit load: 12 enrolled credits per semester or enrolled for one cooperative education program credit as an engineering co-op student during a co-op work period.
- For sessions there is no minimum credit load; the maximum credit load equals the number of weeks in the session.
- A student not on academic probation may freely choose to carry any number of credits between a minimum credit load and a maximum credit load.
- A student may carry more than a maximum credit load only with the recommendation of an advisor and with written approval of the dean.
- Part-time student: A student who wishes to carry less than a minimum credit load in a specific semester for definitive reasons—e.g., a verifiable disability, or a necessity of employment or other outside obligations exceeding 15 hours per week—must request permission from the dean to become a part-time student. Part-time permissions must be renewed during the first two weeks of each semester part-time permission is requested. Part-time students must satisfy all regulations other than the minimum credit load.
- A student on academic probation is advised to carry not more than 14 credits per semester unless repeating a course. For every three credits being repeated, the student is advised to carry not more than one additional credit beyond 14, up to a maximum of 16 credits.

### 10. Student Responsibility for Scheduling

Each student is responsible for arranging a course list that will permit satisfactory progress towards degree requirements and a class schedule that (a) avoids class and final exam scheduling conflicts, (b) avoids an excessively demanding final exam schedule, and (c) verifies registration in chosen classes.

### 11. Access to Courses

Departments may specify courses as not open to students who need to complete progression requirements, or as open only to students in a specific degree program (major).



## 12. Transfer of Degree Applicable Credits

A course taken anywhere other than UW–Madison, or by independent study or resident extension, is transferable to the College of Engineering, in credits only, if it is transferable to the UW–Madison. The course counts toward graduation only if it satisfies a graduation requirement of the curriculum to which it is to be applied and only if it was passed with a grade of C (2.0 on a 4.0 scale) or better.

## 13. Transfer of Grades

Grades for courses taken anywhere other than UW–Madison are not transferable, even if the credits for those courses are transferable.

## 14. Adding Courses

Students may add full-semester courses only during the first two weeks of classes (Regulation 19). The deadline to add a course is specified on the Office of the Registrar’s website.

## 15. Dropping Courses

Students may drop full-semester courses during the first twelve weeks of classes. Courses dropped after the initial drop deadline are noted on the transcript as DR (Regulations 14, 19 and 22.G.). The deadlines to drop a course are specified on the Office of the Registrar’s website.

## 16. Course Substitutions

A student may substitute courses that deviate from the requirements of a published curriculum of the College of Engineering upon the recommendation of the student’s degree-granting department and with the approval of the college governance committee.

## 17. Pass/Fail and Credit/No Credit Courses

Pass/fail is a student-option alternative way of being graded in a regularly graded course. Credit/no credit describes courses approved for two-level grading and is not a student option.

A student may change the grading option of a full-semester course to or from pass/fail only during the first four weeks of classes. (Regulation 19). These courses must be free electives. Only students in good standing may elect the pass/fail privilege.

The pass/fail agreement is between the student and the Registrar, and is not revealed to the person teaching the course. The person teaching the course submits the appropriate letter grade to the Registrar, who converts C or higher grades to S (Satisfactory), D and F grades to U (Unsatisfactory).

Courses designated as credit/no credit will not be counted in determining the number of pass/fail courses the student may elect.

## 18. Audited Courses

A student may audit a course only if the instructor consents. Auditors are expected to attend with a reasonable regularity and to participate in the class, as determined by the instructor. Audited courses carry no degree credit, do not count in determining the minimum number of credits permitted in each term, and are not included in the calculation of the GPA. The only valid grade for audited courses is a grade of S (Satisfactory) or NR (No Report). A student may change to or from credit to audit only during the first four weeks of classes (Regulation 19).

## 19. Courses Scheduled for Fewer Than 15 Weeks

Deadlines for sessions and modular courses are listed on the Office of the Registrar’s website.

## PERFORMANCE AND EVALUATION

### 20. Attendance

Each student is expected to attend all assigned classes during the regular meeting times, and take all of the examinations for those courses at the regularly scheduled times. In the case of course or examination absences excused for a reason acceptable to the course instructor, the student is expected to make up the work within a reasonable time, and may do so without a grade penalty.

### 21. Grading System

Course grades are reported by letter only; plus and minus grades are not authorized. The following grades are included in computing grade point average (GPA) and point-credit ratio (PCR).

Grade: A (Excellent)

Grade Points Per Credit: 4.0

Grade: AB (Intermediate)

Grade Points Per Credit: 3.5

Grade: B (Good)

Grade Points Per Credit: 3.0

Grade: BC (Intermediate)

Grade Points Per Credit: 2.5

Grade: C (Fair)

Grade Points Per Credit: 2.0

Grade: D (Poor)

Grade Points Per Credit: 1.0

Grade: F (Failure)

Grade Points Per Credit: 0.0

### 22. Special-Purpose Grades

The following ways of reporting course grades are also used and, except for NR, do not affect GPA or PCR

- A. S (Satisfactory) or U (Unsatisfactory) – used to report pass/fail courses (Regulation 17). S is also used in audited courses (Regulation 18).
- B. CR (Credit) or N (No Credit) – used to report credit/no credit courses (Regulation 17).
- C. NR (No Report) – signifying that no grade has been reported to the Registrar’s Office – a temporary grade that must be replaced by an A-F grade; also used for a permanent grade in audited courses (Regulation 18).
- D. NW (No Work) – student enrolls in a course and then never attends. This means that instructor has no evidence that student ever attended.
- E. I (Incomplete) – a temporary grade (Regulation 27); EI is used for an extended incomplete (requires a dean’s action); IN is used to indicate an incomplete in a credit/no credit course; PI is used for a permanent incomplete (Regulation 28).
- F. P (Progress) – a temporary grade used for courses extending beyond one term. The final grade determines

the grade for each term and replaces P grades for the course.

- G. DR (Dropped) – indicates the course was dropped after the initial drop deadline noted on the Office of the Registrar’s website.

### 23. Course Grade Changes

The final course grade may be changed only by the professor in charge of the course section, and then only to correct a clerical error in the computation or reporting of the original grade.

### 24. Grade Point Average (GPA) and Point-Credit Ratio (PCR)

Grade point average (GPA) is computed by dividing the total number of grade points earned at UW–Madison by the total number of credits attempted (excluding pass/fail or credit/no credit courses) at UW–Madison. The point-credit ratio (PCR) differs from the grade point average in that it involves only those credits that count toward graduation and the related grade points. When a course is repeated, the credits and grade points earned only for the final attempt are included in the point-credit ratio.

### 25. Dean’s Honor List

At the end of each semester the names of all full-time students in good standing with a 3.5 or higher semester GPA and cumulative GPA of at least 3.0 and no incomplete or unreported grades will be included on the Dean’s Honor List. Credit/no credit and pass/fail courses are not considered in meeting the full-time standing requirement for the Dean’s Honor List. Transcript will show a notation of “Dean’s Honor List.”

### 26. Repeating Courses

Any course may be repeated at the student’s option. In the case of a required course in which the student earned a grade of D and which is a prerequisite to another required course, the student is encouraged (or may be required by departmental regulation) to repeat the course. For courses taken more than once, all grades count in the grade point computations, but only the last grade for the course is applied to the student’s point-credit ratio.

### 27. Incomplete

An incomplete may be reported for a student who has carried a subject with a passing grade, but because of illness or other unusual and substantiated cause beyond the student’s control has been unable to complete the final examination or some limited amount of term work. A student who stays away from a final examination without proof of being prevented from attending as indicated above will receive a grade of F, N, or U (whichever is appropriate). Even with such proof, if the term work has convinced the instructor that the student cannot pass, the grade shall be F, N, or U (whichever is appropriate).

### 28. Resolution of an Incomplete

At the instructor’s option, a course marked incomplete may be completed at any time no later than last day of class of the student’s next semester of attendance at UW–Madison, or it will lapse into a fail. An incomplete may not be removed after five years of absence from UW–Madison without special permission of the dean. Such an incomplete remains on the record with a grade of PI and does not lapse into an F, N, or U.

### 29. Final Exam Rescheduling

A student may be permitted to take an examination at other than the regularly scheduled time only with permission of the instructor. Permission will be granted only for illness or other unusual and substantiated cause beyond the student’s control. (Regulation 10).

### 30. Withdrawal

Students may withdraw from the University after consulting with their advisor and with the approval of the Dean. The withdrawal date and a DR notation will be recorded for courses in progress if the student withdraws after the initial deadline to drop a course and before the withdrawal deadline (Regulations 14, 19 and 22.H.). The deadline to withdraw is specified on the Office of the Registrar’s website.

A Medical Withdrawal may be granted to students who experience a serious or unexpected physical or behavioral health condition; who may need to provide care to an immediate family member who is experiencing a serious or unexpected physical or behavioral health condition; or who have experienced the death of an immediate family member. Approval will be granted on a case-by-case basis.

Withdrawals (other than Medical Withdrawals) are not granted in the last three weeks of scheduled classes. Grades of Incomplete, if justified (Regulation 27), or F, N, or U will be recorded for students who leave the University during this time.

### 31. Year Classification

The year classification of a student is determined by the number of credits passed and the number of grade points earned, applicable to the student’s degree, as indicated by the following tabulation:

#### Freshman

Numerical Classification of Year: 1  
Minimum Credits Passed: 0  
Minimum Grade Points Earned: 0

#### Sophomore

Numerical Classification of Year: 2  
Minimum Credits Passed: 24  
Minimum Grade Points Earned: 48

#### Junior

Numerical Classification of Year: 3  
Minimum Credits Passed: 54  
Minimum Grade Points Earned: 108

#### Senior

Numerical Classification of Year: 4  
Minimum Credits Passed: 86  
Minimum Grade Points Earned: 172

For the purpose of year classification only, pass/fail and credit/no credit courses and courses transferred from another campus are assumed to have earned 2.0 grade points per credit.

### 32. Good Standing

A student is in good academic standing unless on academic probation or dropped.

### 33. Part-time Warning

A student is placed on part-time warning when that student has, in the semester just completed, passed fewer than 12 credits without permission from the Dean.

**34. Probation**

A student is placed on academic probation when that student has, in the semester just completed, attained less than a 2.0 GPA. Once on probation, the student is continued on probation until either removed from probation or dropped (Regulations 35, 36).

**35. Removal From Probation**

The following requirements must be satisfied for the removal of a student from academic probation (Regulation 34):

- A. A cumulative GPA of at least 2.0;
- B. A GPA of at least 2.0 for the semester just completed.

**36. Drop**

- A. A student on academic probation will be dropped at the end of any semester for which that student has attained a GPA of less than 2.0 or passed fewer than half of the credits attempted (Regulation 34).
- B. A student not on academic probation will be dropped at the end of any semester for which that student has passed fewer than half of the credits attempted.

**37. Readmission**

A student who has been dropped for academic reasons may be readmitted by the dean only after the student has been out of the College of Engineering for at least one semester.

**38. Session Actions**

No academic actions (part-time warning, probation, drop, removed from probation) will be taken at the end of sessions (Regulation 8.D).

**39. Graduation**

It is the student's responsibility to ensure that graduation requirements have been met. All students should regularly consult their DARS (Degree Audit Reporting System) document in conjunction with their advisor to ensure that all the following graduation requirements have been met:

- A. Have fulfilled the published graduation requirements of that curriculum, with all substitutions formally approved, and have achieved a minimum 2.0 GPA overall.
- B. Have a PCR (Regulation 24) of at least 2.0 for those semesters and sessions containing the last 60 credits taken at UW–Madison or for all credits taken at UW–Madison if fewer than 60.
- C. Have a departmental PCR of at least 2.0 for all courses taken in the degree-granting department that count toward graduation.
- D. Have completed at least 30 credits in residence in the College of Engineering, including 15 credits of work in the degree-granting department.
- E. Have completed the last two semesters in residence in the College of Engineering. Cannot be on co-op or study abroad in the last semester. Students may seek permission from the Dean to be on co-op or study abroad in their second to last-semester.
- F. Have completed the last semester in the College of Engineering enrolled in courses required for their engineering degree.

- G. Have a GPA of at least 2.0, both for the last semester and also for the combined last two semesters.

**40. Graduation with Distinction and Highest Distinction**

Students who have earned at least 60 credits on the University of Wisconsin–Madison campus and whose total cumulative GPA is in the top 5 percent of the College graduating class will receive the designation "Graduated With Highest Distinction," or if in the next 15 percent, "Graduated with Distinction." The appropriate designation is entered as a permanent record on the student's transcript.

**APPEAL****41. Appeal**

The Dean of the College of Engineering has the authority to suspend or modify the operation of these regulations if their enforcement is judged to work an injustice to the student.

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**POLICIES  
ACCREDITATION**

The following engineering undergraduate degree programs described in this catalog are accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org) (<http://www.abet.org/>):

Biological Systems Engineering (with College of Agricultural and Life Sciences)  
Biomedical Engineering  
Chemical Engineering  
Civil Engineering  
Computer Engineering  
Electrical Engineering  
Engineering Mechanics  
Geological Engineering  
Industrial Engineering  
Materials Science and Engineering  
Mechanical Engineering  
Nuclear Engineering

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**SECOND BACHELOR'S DEGREE**

The College of Engineering does not accept second undergraduate degree applications. Second degree students (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

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**ADDITIONAL MAJOR**

Engineering students may earn an additional major and have the additional major noted on their transcript at the time of graduation. This includes most majors in the College of Letters & Science as well as Health Promotion and Health Equity (HPHE), Education Studies, and Theatre & Drama in the School of Education; and Global Health in the College of Agricultural and Life Sciences. To qualify, the student must have approval in advance from both the department offering the major and the academic dean of the College of Engineering. Students must satisfy all requirements for their declared additional major prior to or concurrently with the

engineering degree. For further details, contact the College of Engineering Dean's Office, 2640 Engineering Hall.

Adding additional majors from colleges other than the College of Letters & Science and majors not approved in the College of Agricultural & Life Sciences and the School of Education is not accepted. For example, majors such as art (School of Education) and forestry (College of Agricultural and Life Sciences) cannot be completed in conjunction with an engineering degree. Likewise, students cannot pursue more than one undergraduate engineering degree concurrently.

## STUDENT GRIEVANCES

In compliance with Title IX regulations, the College of Engineering has a grievance procedure to handle student complaints. Students should follow these steps until a resolution is achieved:

1. Attempt to resolve the grievance directly with the individual involved.
2. If that approach seems unsatisfactory, and the grievance involves a teaching assistant (TA), consult the professor in charge of the course.
3. If necessary, discuss the grievance with the appropriate department chair.
4. The next level involves the academic dean. Students should contact the Associate Dean for Academic Affairs, 608-262-5511.
5. All students have the right to appeal to the dean of the college, Ian Robertson, 608-262-3482, if they feel their case has not been justly handled by another dean.
6. Only a few grievances are really serious and difficult to resolve. In these instances, the dean seeks a solution that, as best as can be determined, is appropriate, just, legal and in the best interests of all concerned.

### AUTHORITY LIMITS ON GRADES

There are areas in which the dean does not have authority to override an instructor, such as determination of a student's grade. However, it has happened that the department chair has intervened, for example, by having a grade determined by committee rather than by the course instructor.

It has also occurred, by agreement between deans, department chairs and faculty, that a misgraded course was dropped from the student's record and credit given for the controversial course by having the student pass the next higher course.

### GRIEVANCE EXAMPLES

The following is a list of student grievances (in no particular order of frequency or importance) that have occurred:

- Discrimination based on sex, religion or political views
- Course or exam grade disputes
- Required class or examination attendance at other than regularly scheduled (timetable) times
- Changes in course content contrary to catalog description or division approval
- Difficulty in obtaining space in a critical course
- Personality conflicts between student and instructor
- Difficulty obtaining an appointment with instructor
- Unwillingness of instructor to estimate a grade before the course drop deadline date
- Teaching above the level of the class, which includes the assumption of an unlisted course prerequisite
- Intelligibility of instructors, especially those for whom English is a second language
- Excessive instructor class absences
- Rescheduled final exams by majority approval or apparent unanimity, to possible disadvantage of the minority
- Sexual harassment (Contact the Division of Student Life, 75 Bascom Hall, 608-263-5700; or the Associate Dean for Academic Affairs, 608-262-5511)

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### ENGINEERING CURRICULA

The graduation requirements for each of the engineering degrees are presented in the form of four-year programs of study. These four-year schedules are available, but rarely followed without deviation. Some students can proceed more rapidly; many must proceed more slowly and take nine or more semesters to complete the degree. Flexibility in course selection is also present though elective categories within curricula.

**All engineering curricula are designed to meet all criteria for accreditation by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org) (<http://www.abet.org/>). Among other criteria, ABET requires that students complete:**

- A minimum of 30 semester credit hours (or equivalent) of a combination of college-level mathematics and basic sciences with experimental experience appropriate to the program.

- A minimum of 45 semester credit hours (or equivalent) of engineering topics appropriate to the program, consisting of engineering and computer sciences and engineering design, and utilizing modern engineering tools.
- A broad education component that complements the technical content of the curriculum and is consistent with the program educational objectives.
- A culminating major engineering design experience that 1) incorporates appropriate engineering standards and multiple constraints, and 2) is based on the knowledge and skills acquired in earlier course work.

Engineering curricula continuously evolve. The requirements that apply to a particular student are determined by the date (catalog year) that a student enters a degree-granting program. At that point, the curriculum becomes fixed throughout the period it takes for a student to complete the degree, although new changes that benefit a student can be adopted by a particular student if he or she so chooses.

The curricular descriptions below do not address how these requirements are satisfied; students seldom need to be concerned with these details. However, if deviations from a curriculum are requested, they must not violate any of the accreditation requirements.

## DEVIATION FROM PRESCRIBED CURRICULA

Circumstances deemed acceptable for deviating from the outlined engineering curricula are included in each departmental description. The choice of courses to fulfill elective credit requirements provides students with considerable flexibility in their programs. In addition, some departments permit the substitution of elective courses for required ones and also offer outstanding undergraduate students the opportunity to enroll in graduate courses. These options aid the student in tailoring a course of study to meet personal goals more closely.

## DEFINITION OF ELECTIVES

There are general types of elective courses including technical electives, liberal studies and free electives.

**Technical electives** are limited to courses in engineering and closely related fields.

**Liberal studies electives** are those courses that are classified as either humanities, literature, social studies or as foreign language.

**Free electives** are courses completely free of any restrictions or requirements other than the course prerequisites.

Other specific elective requirements are established and described in department curricula.

To assist the student in gaining a better understanding of individuals and societies, and to reduce problems of transferring from one curriculum to another, engineering curricula require adherence to the Liberal Studies Guidelines (see below). Some require slight variations from those guidelines.

## INDEPENDENT STUDY

Students who have high grade point averages may satisfy some elective credits by independent study of subjects or problems suitable for analytical investigative work. The student must identify a professor who is willing to supervise study of interest to the student. Together they must agree upon the work to be done, the credits earned (usually 1-3), and the

course number (199, 299, 399, 499, 599, or 699) for which the student is to enroll before the beginning of a semester. Weekly meetings with the professor to discuss questions and report progress are customary.

## LIBERAL STUDIES GUIDELINES

The College of Engineering requires one semester's worth of liberal elective courses in humanities, literature and social science for graduation. The college specifies that students should obtain both **breadth** (i.e., both social science *and* literature or humanities), and **depth** (i.e., more than one course in the same department).

The college has established general liberal elective guidelines that have been adopted by all departments, some of which have additional stipulations (see below).

## FOR ALL ENGINEERING STUDENTS

As a graduation requirement, and to fulfill campus general education guidelines, all engineering undergraduate students must take 15 or 16 credits of liberal electives. These credits must fulfill the following subrequirements.

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectarea/>) (the description before the course number). At least one of these two courses must be above the elementary level (i.e., must have I, A, or D level designator), as indicated in Guide (<https://guide.wisc.edu/courses/>).
2. A minimum of 6 credits designated as humanities or literature, and an additional minimum of 3 credits designated as social science. Foreign language courses count as humanities credits.<sup>1</sup>
3. At least one course of at least 3 credits designated as ethnic studies (lower case "e" in the Course Guide). These credits may help satisfy subrequirements 1 or 2 as well, but they count only once toward the total required credits.

<sup>1</sup>

**Exception:** "Retrocredits," which are credits awarded by foreign language departments for successful completion of a higher level course, do not count toward this subrequirement, nor toward the total credits required (15 or 16). They are still helpful: If a student completes one foreign language course at the intermediate level and is awarded retrocredits, then subrequirement 1 above is satisfied because the student is judged to have achieved "depth" in liberal studies.

## ADDITIONAL RESTRICTIONS/ SUBREQUIREMENTS FOR SPECIFIC DEPARTMENTS

**Civil and Environmental Engineering:** An economics course (from an approved list) and an environmental studies course (with approved characteristics) are required.

**Industrial Engineering:** ECON 101 Principles of Microeconomics or ECON 111 Principles of Economics–Accelerated Treatment is required.

## RESOURCES

The solutions to challenges great and small lie not in the hands of one person, but emerge from the diverse ideas, perspectives, and backgrounds of many people working together. Whether a prospective or current faculty member, staff member, or student, members of the College of Engineering create a welcoming community where they can be themselves

and strive to become whatever they want to be. Here are some of the services and organizations that students can utilize along the way.

## ENGINEERING SCHOLARSHIPS

The College of Engineering awards over two million dollars in scholarships each year to its students.

**Incoming Freshman Awards:** Beginning in 2021-2022, there is no longer a separate scholarship application for incoming freshmen. The admissions applications of admitted students will be reviewed and selection will be based on students' academic record, extracurricular activities, application essays, and letters of recommendation. This new process pertains to both scholarships that are based on need and those which are not based on need. Learn more about College of Engineering scholarships for incoming first-year students, which include the STAR, LEED, Engineering Freshman Awards, and Departmental Scholarships, here: <https://engineering.wisc.edu/admissions/scholarships/>. Additional details about LEED scholarships (Leaders in Engineering Excellence and Diversity), can also be found in the Inclusion, Equity, and Diversity Student Center (IEDE Student Center) section below.

Scholarship award considerations are based on a holistic approach that encourages diversity in the programs while considering course rigor and compatibility and potential for success in the program. Financial need can be a factor for some scholarships based on their Free Application for Federal Student Aid (FAFSA®). Students must submit a FAFSA to UW-Madison in order to be considered for need-based scholarships. For more information on the FAFSA, please refer to the Office of Student Financial Aid website: <https://financialaid.wisc.edu/applying/>.

**Continuing Student Awards:** Each spring, continuing undergraduate students in the College of Engineering are eligible to apply for college-wide and departmental scholarships. The application period is mid-February through mid-April and students must have progressed in their department to be considered for awards for the following academic year. Students can apply by visiting the Wisconsin Scholarship Hub (WiSH) (<https://wisc.academicworks.com/>).

**Off-campus Transfer Students:** There is no longer a separate scholarship application for incoming off-campus transfer students. The admissions applications and transcripts of admitted off-campus transfer students will be reviewed for scholarship opportunities. Each semester, several scholarships are awarded to recognize the outstanding achievements of incoming transfer student scholars who join the College of Engineering from other colleges and universities.

## ACADEMIC ADVISING

Each College of Engineering program has academic advisors (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues, and more. Students can find their assigned advisor in their student center.

## UNDERGRADUATE LEARNING CENTER

The Undergraduate Learning Center (<https://engineering.wisc.edu/student-services/undergraduate-learning-center/>) (ULC) in the College of Engineering provides tutoring and academic support programs for engineering undergraduates wanting to excel in their courses. The ULC is a place where students study, form study groups, and discuss engineering concepts and problem-solving strategies with their peers and with the tutors and facilitators.

## Drop-In-Tutoring Sessions

Sessions are offered for over 60 courses in mathematics, chemistry, physics, statistics, computer sciences, and engineering. The sessions provide help with homework problems, concept review, and exam preparation. Drop-in tutoring sessions are offered each evening from Sunday to Thursday, resulting in approximately 15,000 student visits in a typical year.

## PrEPS (Practicing Engineering Problem Solving) Labs

Labs were developed to help students succeed in core courses that have traditionally proved challenging for students. The courses targeted are early in the engineering curricula and contain dense material content delivered at a fast pace. The labs reinforce concepts through practicing problem solving skills. Students commit to meeting twice every week for 75 minutes per meeting.

## Tutoring by Request

Based on the Tutorial Services Room model developed at MIT, the College of Engineering offers Tutoring by Request (TBR) for students in critical need. Assistance is offered in a variety of courses, ranging from gateway courses such as chemistry, math, physics courses, to intermediate-level engineering courses.

## Special Courses and Workshops

Special courses are targeted toward helping students learn topics that span multiple courses such as math concepts common to a variety of introductory engineering courses. Self-guided online tutorials are available for several early math courses. Workshops are offered in topics such as MATLAB, R, and vector review to help students be successful in their engineering courses. Availability varies by semester.

## STUDY ABROAD

In today's global marketplace, there is an increasing need for broadly educated engineering graduates with cross-cultural skills, international understanding, and proficiency in more than one language. International Academic Programs (IAP) and the College of Engineering are committed to providing and expanding international opportunities that will assist engineering students in obtaining these important skills.

International Academic Programs, in collaboration with the College of Engineering, offers semester, year-long, and summer study abroad programs for engineering students (<https://studyabroad.wisc.edu/programsearch/?advisinglocation=103>), and additional opportunities (<https://studyabroad.wisc.edu/programsearch/?AreaOfFocus=77788>) on which engineering students can complete degree requirements through other units at institutions in many countries around the world. These programs offer engineering students the opportunity to continue to make progress toward degree requirements and have a meaningful experience abroad.

The College of Engineering also offers a Certificate in International Engineering. Courses in language and culture taken abroad and in Madison can count toward this certificate, which demonstrates the student's knowledge of a specific country or region. This credential appears on the student's transcript, strengthens their resume, and testifies to their preparation for an international career.

For more information regarding international programs, visit [studyabroad.wisc.edu](https://studyabroad.wisc.edu) (<https://studyabroad.wisc.edu/>).

## ENGINEERING CAREER SERVICES WITH COOPERATIVE EDUCATION

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website (<https://ecs.wisc.edu>) or call 608-262-3471.

## INCLUSION, EQUITY, AND DIVERSITY IN ENGINEERING STUDENT CENTER

The Inclusion, Equity, and Diversity in Engineering Student Center (IEDE Student Center) (<https://engineering.wisc.edu/about/inclusion-equity-and-diversity/>) exists to affirm a sense of belonging for all students, striving to create a welcoming and supportive campus community for students from historically underrepresented groups in the field of engineering, including women, students from racially and ethnically diverse backgrounds, LGBTQ+, first generation, and socioeconomically disadvantaged student populations.

In partnership with units across campus, the IEDE Student Center develops and implements student-centered programs and services that foster an inclusive campus community; it offers a space and place for intercultural and cross-cultural engagement as well as opportunities for students to make meaningful connections with others. The center provides students a comfortable place to study with access to computers and printers, and a place to be their genuine and authentic selves.

The IEDE Student Center also works closely with the UW-Madison chapters of the National Society of Black Engineers (NSBE), Queer and Trans Engineers (QTE), Society of Hispanic Professional Engineers (SHPE), and the Society of Women Engineers (SWE).

### Undergraduate Programs

The Leaders in Engineering Excellence and Diversity (LEED) Scholars is a community and scholarship program providing students with monthly student development meetings, adjunct academic advising, peer mentoring and networking, personal and career development, leadership and community outreach opportunities, and engagement in social justice. LEED Scholars events are open to any student interested in engaging in a diverse learning community.

### High School Programs and Outreach

The IEDE Student Center, with the help of undergraduate student leaders, offers engineering outreach visits on campus and at high schools. In the summer, we offer residential and virtual programs for high school students, including the Engineering Summer Program and Engineering Tomorrow's Careers (Society of Women Engineers).

### Other Programs

The IEDE Student Center develops programs designed to promote a welcoming climate that celebrates the diversity of all students in the College of Engineering. The variety of events and projects includes History Month Lunch and Learns, Student Success Summit, and the Diversity in Engineering Welcome events.

## COMPUTER-AIDED ENGINEERING CENTER

The Computer-Aided Engineering Center (CAE) (<http://www.cae.wisc.edu>) provides computing resources, facilities, and services for students, faculty, and staff in the college. The broad range of services and resources include:

- Windows and Linux computer classrooms;
- open labs which have Windows and Linux workstations;
- industry-standard engineering software;
- software and services available on students' personal computers;
- reliable file storage for coursework;
- customer consulting and help-desk services.

The CAE walk-in help desk is located at 1410 Engineering Drive; 608-262-5349; submit contact form: <https://www.cae.wisc.edu/contact/>. For more information, see the CAE website (<http://www.cae.wisc.edu>).

## WELLNESS SERVICES

University Health Service's mental health (<https://www.uhs.wisc.edu/mental-health/>) providers understand the complexities of student life and offer an open, safe, and confidential environment to help students through issues that may interfere with their development, well-being, and academic productivity.

UHS's no-cost mental health services include individual, couple/partner, group counseling, outreach programming, and stress management. They also offer 24/7 crisis services. Psychiatry services are also available for medication management.

University Health Services/Mental Health Services  
333 East Campus Mall  
Madison, WI 53715-1384  
608-265-5600

## REGISTERED STUDENT ORGANIZATIONS

The College of Engineering has just as many opportunities outside the classroom as it does inside. CoE students have access to a wide variety of groups, organizations, and services that will help make their time on campus memorable and unique. There are more than 50 engineering affiliated student organizations (<https://engineering.wisc.edu/student-life/student-organizations/>) on campus. Students can get involved in organizations that range from competitive, such as teams that build and race vehicles or concrete canoes, to service-oriented, honors societies, and student government. The College of Engineering also offers many discipline-related student chapters of professional organizations that will connect students with their peers and also help them make professional contacts.

## EMERGING LEADERS IN ENGINEERING

The Emerging Leaders in Engineering (ELE) program is the College of Engineering's undergraduate leadership program.

ELE is a one-year cohort-based program created by engineering students, for engineering students. Students who graduate from the ELE program are awarded a formal leadership certificate by the UW-Madison Center for Leadership and Involvement.

Those who are admitted into the program receive individual leadership coaching, join our young alumni mentorship program, create a personal/professional development plan, work on local technical issues in our

community, and receive course credit for their experience. Any student going into their sophomore year is encouraged to apply.

For more information please contact Angela Kita (amkita@wisc.edu) or visit our website (<https://engineering.wisc.edu/student-life/student-organizations/student-leadership-program/>).

## HONORS

In general, the concept of academic honors programs in higher education focuses resources on especially able students who are interested in challenging themselves at unusually high levels. This concept does not translate to the College of Engineering programs. All engineering classes are challenging, focused, and require high academic ability in math and science. Further, in engineering, resources must be used to make sure all engineering graduates—not just a few—excel in every respect. Nonetheless, honors opportunities are available on a limited basis in the College of Engineering.

### ENGINEERING HONORS IN RESEARCH

Select students in certain degree-granting departments may pursue the Honors in Research distinction. It requires completion of a certain number of semesters of faculty-guided independent study work and completion of a written thesis. Honors in Research programs have been developed for majors in biomedical engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, engineering mechanics, geological engineering, industrial engineering, materials science and engineering, mechanical engineering, and nuclear engineering. Interested students should contact their department for more information.

### ENGINEERING HONORS IN THE LIBERAL ARTS (EHLA)

EHLA allows for a small group of highly motivated students who have special, broad interests in liberal arts to take challenging background courses in physical science, natural science, humanities, foreign language, and social science to supplement their engineering program. The EHLA program will allow students access to honors sections in these College of Letters & Science courses. Honors courses in physical and natural science are available to invited engineering freshmen whether or not they are selected for EHLA. Conversely, no engineering courses are available as honors courses. Admission to EHLA is based on applications from high school students submitted before May 23 of their last year in high school. Fewer than 30 students are admitted each year. Interested students can find the application on the College of Engineering website (<https://docs.google.com/forms/d/e/1FAIpQLSfgNM66tru6Y69xxCmjN5ea34avL0Ogc73t8crCdQoSoLW3gw/viewform/>) and should contact Dr. Andrew Greenberg at [greenberg2@wisc.edu](mailto:greenberg2@wisc.edu) with questions.

The EHLA designation will be awarded to those admitted to the EHLA program who meet the following requirements when they graduate with an engineering degree:

- A cumulative grade point average of at least 3.3 in all honors courses through the semester in which all criteria for EHLA are met;
- Completion of at least 24 credits in Honors courses with grades of B or better;
- Completion of at least 6 credits in Honors courses in the humanities, 6 credits in social sciences, and 6 credits in natural sciences;

- Completion of at least 15 Honors credits in courses with the designation "H" or "!" (honors sections).

Because the classes for which Honors designation is available are taken mainly in the first year, students do not apply to the EHLA program once they begin in the College of Engineering. Students can, however, transfer from the College of Letters & Science Honors in Liberal Arts program into the EHLA program provided they transfer into an engineering program in their first two years.

## BIOMEDICAL ENGINEERING

Biomedical engineering (BME) is the application of engineering tools for solving problems in biology and medicine. It is an engineering discipline that is practiced by professionals trained primarily as engineers, but with a specialized focus on the medical and biological applications of classical engineering principles. BMEs apply their multidisciplinary expertise to problems such as designing new medical instruments and devices, understanding and repairing the human body, and applying resourceful and cross-disciplinary approaches to age-old problems in the fields of medicine, biology, and beyond. A biomedical engineer can expect to work in a wide variety of multidisciplinary teams with professionals such as physicians, biologists, researchers, nurses, therapists, mathematicians, administrators, and many others while working in industry, as entrepreneurs, and in the medical profession and academia.

## DEGREES/MAJORS/CERTIFICATES

- Biology in Engineering for Engineering Majors, Certificate (p. 249)
- Biomedical Engineering, B.S. (p. 251)

## PEOPLE

### FACULTY

Paul Campagnola (Chair)  
 Randolph Ashton  
 David Beebe  
 Walter Block  
 Christopher Brace  
 Kevin Eliceiri  
 Shaoqin 'Sarah' Gong  
 Aviad Hai  
 Melissa Kinney  
 Pamela Kreeger  
 Wan-ju Li  
 Kip Ludwig  
 Kristyn Masters  
 Megan McClean  
 Beth Meyerand  
 William Murphy  
 Krishanu Saha  
 Melissa Skala  
 Darryl Thelen  
 Justin Williams  
 Colleen Witzenburg  
 Filiz Yesilkoy



## INSTRUCTIONAL STAFF AND TEACHING FACULTY

Amit Nimunkar  
John Puccinelli  
Tracy Jane Puccinelli  
Darilyn Suarez-Gonzalez  
Aaron Suminski

See also Biomedical Engineering Faculty Directory (<http://directory.engr.wisc.edu/bme/>).

## BIOLOGY IN ENGINEERING FOR ENGINEERING MAJORS, CERTIFICATE

The biology in engineering certificate (BEC) is designed for engineering students who want to strengthen their biology backgrounds. It is offered especially to encourage engineering students in traditional disciplines to prepare themselves to understand the special engineering problems in biology and medicine. A student successfully fulfilling the requirements will have the notation "Biology in Engineering Certificate" added to the transcript.

### HOW TO GET IN

The Biology in Engineering Certificate was designed and is administered by a Biology in Engineering Certificate Committee composed of faculty from multiple engineering disciplines. Students normally should begin the program during their sophomore or junior year, but seniors may also apply.

Prerequisites to enter the certificate program:

- Prior admission to an engineering B.S. degree program (<http://guide.wisc.edu/undergraduate/engineering/#degreesmajorscertificatetext>) or Biological Systems Engineering (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/biological-systems-engineering/biological-systems-engineering-bs/>) through the College of Agricultural and Life Sciences (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/>) at the UW-Madison.
- Students pursuing an undergraduate degree at UW-Madison need to have completed at least one intermediate-level (minimum 200-level) engineering course.

Click here (<https://go.wisc.edu/bme-bec-application/>) for certificate application.

### REQUIREMENTS

The certificate requires a minimum of 15 credits:

#### GENERAL BIOLOGY: 5 CREDITS

Code	Title	Credits
<b>Choose one combination:</b>		<b>5</b>
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	5

BIOCORE 383 & BIOCORE 384	Cellular Biology and Cellular Biology Laboratory	5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	5
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	5
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	5
ZOOLOGY 153	Introductory Biology (and)	3
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory (or)	

choose 2 more credits from list below

#### ADVANCED BIOLOGY: 5-CREDIT MINIMUM

Code	Title	Credits
<b>Advanced Biology (5 cr. minimum): Recommended to choose a lecture/lab combination as outlined below, but any combination of courses is acceptable</b>		<b>5</b>
ANAT&PHY 335	Physiology	5
ANAT&PHY 435	Fundamentals of Human Physiology	5
BIOCORE 485 & BIOCORE 486	Principles of Physiology and Principles of Physiology Laboratory	5
BIOCORE 587	Biological Interactions	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
GENETICS 466 & GENETICS 545	Principles of Genetics and Genetics Laboratory	5
GENETICS/ MD GENET 662	Cancer Genetics	3
MICROBIO 303 & MICROBIO 304	Biology of Microorganisms and Biology of Microorganisms Laboratory	5
MICROBIO/ FOOD SCI 324 & MICROBIO/ FOOD SCI 325	Food Microbiology Laboratory and Food Microbiology	5
MICROBIO 330	Host-Parasite Interactions	3
M M & I 301	Pathogenic Bacteriology	2
M M & I 341	Immunology	3
M M & I/PATH-BIO 528	Immunology	3
M M & I/ BIOCHEM 575	Biology of Viruses	2
ZOOLOGY/ ENVIR ST 315 & ZOOLOGY 316	Limnology-Conservation of Aquatic Resources and Laboratory for Limnology-Conservation of Aquatic Resources	4-5
ZOOLOGY/ENTOM/ M M & I/PATH-BIO 350	Parasitology	3

ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	3	CIV ENGR/ SOIL SCI 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5	CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
ZOOLOGY 470 & ZOOLOGY 555	Introduction to Animal Development and Laboratory in Developmental Biology	6	COMP SCI/ B M I 576	Introduction to Bioinformatics	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5	E C E 542	Introduction to Microelectromechanical Systems	3
ZOOLOGY/ ENVIR ST 510 & ZOOLOGY/ ENVIR ST 511	Ecology of Fishes and Ecology of Fishes Lab	5	I SY E/B M E 564	Occupational Ergonomics and Biomechanics	3
ZOOLOGY/ PSYCH 523	Neurobiology	3	INTEREGR 301	Engineering and Biology: Technological Symbiosis	1-4
ZOOLOGY 525	Tropical Herpetology	1	M S & E 553	Nanomaterials & Nanotechnology	3
ZOOLOGY 570	Cell Biology	3	<b>SEMINAR: 1 CREDIT</b>		
ZOOLOGY 611 & ZOOLOGY 612	Comparative and Evolutionary Physiology and Comparative Physiology Laboratory	5	<b>Code</b>	<b>Title</b>	<b>Credits</b>
			B M E 517	Biology in Engineering Seminar	1
			<b>Total Credits</b>		<b>1</b>

## BIOLOGY IN ENGINEERING: 3-CREDIT MINIMUM

Code	Title	Credits
<b>Biology in Engineering (3 cr. minimum): Choose one</b>		
B M E/M E 414	Orthopaedic Biomechanics - Design of Orthopaedic Implants	3
B M E/M E 415	Biomechanics of Human Movement	3
B M E/PHM SCI 430	Biological Interactions with Materials	3
B M E/E C E 462	Medical Instrumentation	3
B M E/E C E 463	Computers in Medicine	3
B M E/M E 505	Biofluidics	3
B M E 510	Introduction to Tissue Engineering	3
B M E 520	Stem Cell Bioengineering	3
B M E 545	Engineering Extracellular Matrices	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E/M E 615	Tissue Mechanics	3
B M E/MED PHYS/ PHM COL- M/PHYSICS/ RADIOL 619	Microscopy of Life	3
BSE 249	Engineering Principles for Biological Systems	3
BSE 349	Quantitative Techniques for Biological Systems	3
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
CBE/B M E 560	Biochemical Engineering	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Develop an understanding of basic biology and a selected area of advanced biology.
2. Develop an understanding of the challenges in biology, medicine, public health, and environmental health that are currently being addressed by engineering research and development.
3. Demonstrate proficiency in the application of engineering principles to solve problems in the field based on biological principles.

## PEOPLE

## ADVISORS FOR THE BIOLOGY IN ENGINEERING CERTIFICATE PROGRAM

(Contact the advisor from your home department or the Chair)

## CHAIR AND CERTIFICATE ADMINISTRATION - BIOMEDICAL ENGINEERING

Dr. John Puccinelli  
2132 Engineering Centers Bldg  
john.puccinelli@wisc.edu  
890-3573

## BIOLOGICAL SYSTEMS ENGINEERING

Professor Anita Thompson  
115 Agricultural Engineering Bldg  
amthompson2@wisc.edu

262-0604

Professor Mark Etzel  
B115 Babcock Hall  
etzel@engr.wisc.edu  
263-2083

## CHEMICAL AND BIOLOGICAL ENGINEERING

Professor John Yin  
3172 Wisconsin Institutes for Discovery  
yin@engr.wisc.edu  
316-4323

## CIVIL AND ENVIRONMENTAL ENGINEERING

Professor Katherine McMahon  
5552 Microbial Sciences Building  
tcmahon@engr.wisc.edu  
890-2836

## ELECTRICAL AND COMPUTER ENGINEERING

Daniel van der Weide  
1439 Engineering Hall  
danvdw@engr.wisc.edu  
265-6561

## ENGINEERING PHYSICS

Associate Professor Christian Franck  
cfranck@wisc.edu

## INDUSTRIAL AND SYSTEMS ENGINEERING

Professor Robert Radwin  
2106 Engineering Centers Bldg  
rradwin@wisc.edu  
263-6596

## MATERIALS SCIENCE AND ENGINEERING

Professor Padma Gopalan  
219 Materials Science and Eng Bldg  
pgopalan@wisc.edu  
265-4258

## MECHANICAL ENGINEERING

Associate Professor Christian Franck  
cfranck@wisc.edu

# BIOMEDICAL ENGINEERING, B.S.

Biomedical engineering (BME) is the application of engineering tools for solving problems in biology and medicine. It is an engineering discipline that is practiced by professionals trained primarily as engineers, but with a specialized focus on the medical and biological applications of classical engineering principles. BMEs apply their multidisciplinary expertise to problems such as designing new medical instruments and devices, understanding and repairing the human body, and applying resourceful and cross-disciplinary approaches to age-old problems in the fields of medicine, biology, and beyond. A biomedical engineer can expect to work in a wide variety of multidisciplinary teams with professionals such as physicians, biologists, researchers, nurses, therapists,

mathematicians, administrators, and many others while working in industry, as entrepreneurs, and in the medical profession and academia.

To prepare students for such careers, the 128-credit, four-year BME undergraduate degree emphasizes engineering design; access to cooperatives/internships at local or national medical device manufacturers, hospitals, or laboratories; continuous advising; flexibility in engineering specialization areas; participation in program evaluation and improvement; study-abroad opportunities; and an option to complete a one-year M.S degree following the undergraduate program.

The backbone of the BME program is its **unique, seven-semester design curriculum**. Students take an advising/design project course the freshman year and every semester during the sophomore through senior years. A faculty member advises small teams of students, serving as advisor/consultant/mentor, to guide them through real-world design projects solicited from clients throughout the university, medical profession, industry, and the community. These clients serve as resources for students in their project, conduct discussions, and expose the students to various aspects of the BME field. Over the course of each semester, teams design, fabricate, and ultimately present a product that meets the needs of the client. This novel approach gives students an exceptionally balanced education by incorporating clinical and biomedical industry experience, thus expanding their network. Overall, the design experiences highlight the very multidisciplinary nature of BME.

Within the program, BME students choose a course of study that emphasizes one of the following four specializations within the field:

1. **Bioinstrumentation and medical devices** is the application of electronics, measurement principles, and techniques to develop devices used in diagnosis and treatment of disease. Examples include the electrocardiogram, brain-computer interface, implantable electrodes, sensors, tumor ablation, and other medical devices. Neuroengineering, a subfield, involves using engineering technology to study the function of neural systems and the development of implantable technology for neuroprosthetic and rehabilitation applications.
2. **Biomedical imaging and optics** involves the design and enhancement of systems for noninvasive anatomical, cellular, and molecular imaging. In addition to common imaging techniques such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET), biomedical imaging includes topics such as biophotonics, optics, and multimode imaging, and is now expanding to serve functional and therapeutic purposes as well. Advanced capabilities result when fundamentals of engineering, physics, and computer science are applied in conjunction with the expertise of clinical collaborators.
3. **Biomechanics** applies engineering mechanics for understanding biological processes and for solving medical problems at systemic, organ, tissue, cellular, and molecular levels. This includes the mechanics of connective tissues (ligament tendon, cartilage and bone) as well as orthopedic devices (fracture fixation hardware and joint prostheses), vascular remodeling (pulmonary hypertension), muscle mechanics with injury and healing, human motor control, neuromuscular adaptation (with age, injury, and disease), microfluidics for cellular applications, cellular motility and adhesion, and rehabilitation engineering.
4. **Biomaterials, cellular and tissue engineering** involves the characterization and use of structural materials, derived from synthetic or natural sources, to design medical products that safely interact with tissues for therapeutic or diagnostic purposes such as artificial blood

vessels, heart valves, orthopedic joints, and drug delivery vehicles. Tissue engineers understand structure–function relationships in normal and pathological tissues to engineer living tissues and/or biological substitutes to restore, maintain, or improve function. At the cellular and molecular level this includes the study or manipulation of biological processes such as the cell's differentiation, proliferation, growth, migration, apoptosis, and can involve genetic and stem cell engineering.

Although the various disciplines within BME can be separately defined, solving a biomedical program requires an overall understanding of the field. For example, the design of an artificial hip requires an understanding of the forces and **biomechanics** of human movement as well as the mechanical and material properties of the prosthetic device. The **material** choice and topography play a critical role in cellular and tissue integration, which ultimately leads to long-term stability of the implant. In addition, **biomedical imaging** techniques are required to characterize the morphology of the diseased hip and the success of the procedure. Finally, **instrumentation** devices are utilized during the hip replacement surgery.

Students choose the biomedical engineering field to be of service to people; for the excitement of working with living systems; and to apply advanced technology to the complex problems of medical care. Students in the BME program can expect to develop skills in innovative thinking, critical analysis of ethics, project management, and technical writing, all in an environment that cultivates creativity, teamwork, and curiosity. With many possible focuses within the major, BME students have the opportunity to explore and cultivate their interests in specific topics while applying the concepts of engineering to medical applications, hands-on projects, and cutting-edge research.

Students successfully completing the B.S. degree in BME with an overall GPA of 3.0 or a GPA of 3.25 for the last 60 credits of the B.S. program are eligible to apply for the one-year M.S. degree.

## BIOMEDICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

We recognize that our graduates will choose to use the knowledge and skills that they have acquired during their undergraduate years to pursue a wide variety of career and life goals, and we encourage this diversity of paths. Whatever path graduates choose, be it a job, postgraduate education, or volunteer service, be it in engineering or another field, we have for our graduates the following objectives; that they will:

1. exhibit strong skills in problem solving, leadership, teamwork, and communication;
2. use these skills to contribute to their communities;
3. make thoughtful, well-informed career choices; and
4. demonstrate a continuing commitment to and interest in their own and others' education.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to

meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

## CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@enr.wisc.edu](mailto:ugtransfer@enr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	<i>Mathematics</i>	19
	<i>Science</i>	32
	<i>General Education</i>	21
	<i>Engineering Courses:</i>	
	Introduction to Engineering	3
	Engineering Mechanics Core Courses	6
	Biomedical Engineering Core Courses	23
	Biomedical Engineering Area Technical Elective Requirements	15
	Biomedical Advanced Technical Elective	3
	Engineering Technical Elective	2
	<b>Total Credits</b>	<b>At least 128</b>

## MATHEMATICS

Code	Title	Credits
MATH 221 & MATH 222 & MATH 234	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2 and Calculus--Functions of Several Variables	13
MATH 320 or MATH 319	Linear Algebra and Differential Equations Techniques in Ordinary Differential Equations	3
B M E 325 or STAT 324 or STAT/ MATH 431	Applied Statistics for Biomedical Engineers Introductory Applied Statistics for Engineers Introduction to the Theory of Probability	3
	<b>Total Credits</b>	<b>19</b>

## SCIENCE

Code	Title	Credits
COMP SCI 220 or COMP SCI 200 or COMP SCI 300	Data Science Programming I Programming I Programming II	3-4
PHYSICS 202 or PHYSICS 208	General Physics General Physics	5
	General Chemistry - select one option:	5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 343	Organic Chemistry I	3
	Biology - select one option:	5
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	
	Human physiology/systems biology - select one option:	5
ANAT&PHY 335	Physiology	
BIOCORE 485 & BIOCORE 486	Principles of Physiology and Principles of Physiology Laboratory	
	Advanced Biology/Life Science elective - select one option:	3
ANAT&PHY 337	Human Anatomy	
BIOCORE 587	Biological Interactions	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
BIOCHEM 508	General Biochemistry II	
BIOCHEM/ M M & I 575	Biology of Viruses	
GENETICS 466	Principles of Genetics	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY/ PSYCH 523	Neurobiology	
ZOOLOGY 570	Cell Biology	
	Science Elective - select one option:	3
ANAT&PHY 337	Human Anatomy	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
BIOCHEM 508	General Biochemistry II	
BIOCHEM/ M M & I 575	Biology of Viruses	
CHEM 327	Fundamentals of Analytical Science	
CHEM 329	Fundamentals of Analytical Science	
CHEM 345	Organic Chemistry II	
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	

CRB 650	Molecular and Cellular Organogenesis
CRB/B M E 670	Biology of Heart Disease and Regeneration
COMP SCI 300	Programming II
COMP SCI 320	Data Science Programming II
COMP SCI 400	Programming III
GENETICS 466	Principles of Genetics
GENETICS 467	General Genetics 1
GENETICS 468	General Genetics 2
GENETICS 520	Neurogenetics
KINES 531	Neural Control of Movement
MICROBIO 101	General Microbiology
MICROBIO 303	Biology of Microorganisms
MICROBIO 330	Host-Parasite Interactions
M M & I 341	Immunology
M M & I/PATH-BIO 528	Immunology
ZOOLOGY 470	Introduction to Animal Development
ZOOLOGY/PSYCH 523	Neurobiology
ZOOLOGY 570	Cell Biology
ZOOLOGY 630	

**Total Credits** **32-37**

## GENERAL EDUCATION

Code	Title	Credits
<i>Communications A</i>		3
LSC 100	Science and Storytelling	
or COM ARTS 1C	Introduction to Speech Composition	
or ENGL 100	Introduction to College Composition	
or ESL 118	Academic Writing II	
<i>Communications B (choose one):</i>		3
B M E 301	Biomedical Engineering Design and Communication (if taken Fall 2023 or later)	
ZOOLOGY/BIOLOGY/BOTANY 152	Introductory Biology	
BIOCORE 384	Cellular Biology Laboratory	
At least 15 credits of liberal studies following the College of Engineering guidelines (p. 244)		15

**Total Credits** **21**

## ENGINEERING COURSES

Code	Title	Credits
<i>Introduction to Engineering</i>		3
INTEREGR 170	Design Practicum <sup>1</sup>	
<i>Required engineering mechanics core courses</i>		6
E M A 201	Statics	
or PHYSICS 201	General Physics	
or PHYSICS 207	General Physics	
E M A 303	Mechanics of Materials	
or M E 306	Mechanics of Materials	

*Required B M E core courses* **23**

B M E 200	Biomedical Engineering Design
B M E 201	Biomedical Engineering Design and Fundamentals
B M E 300	Biomedical Engineering Design and Leadership
B M E 310	Bioinstrumentation
B M E 315	Biomechanics
B M E 400	Capstone Design Course in Biomedical Engineering
B M E 402	Biomedical Engineering Capstone Design II
B M E/PHM SCI 430	Biological Interactions with Materials

*Engineering area technical electives (see below)* **15**

*One advanced B M E technical elective from any area* **3**

*Engineering technical elective: Any engineering course(s) from a degree-granting engineering program <sup>2</sup>* **2**

**Total Credits** **52**

**1**

Students transferring from other engineering majors may count their previous program's introduction to engineering course(s) here (CBE 150 Introduction to Chemical Engineering, E C E 210 Introductory Experience in Electrical Engineering, E C E/COMP SCI 252 Introduction to Computer Engineering, G L E 171 Introduction to Geological Engineering, INTEREGR 170 Design Practicum, I SY E 191 The Practice of Industrial Engineering, M E 201 Introduction to Mechanical Engineering, M S & E 260 Materials Experience, and NAV SCI 301 Naval Engineering).

**2**

The number of credits in this area can range from 2 or more such that at least 2 credits are met here and 48 engineering credits are met overall. This number of credits depends on how students decide to fulfill various requirements when they enter or progress into program, and if they study abroad. Examples that may add additional credits include (and are not limited to): Taking PHYSICS 201 General Physics instead of E M A 201 Statics may add 3 credits. Transfer students are not required to take INTEREGR 170 Design Practicum, which may add 3 credits. Students who study abroad may miss a design course which may add credit. Regardless of the choices made, all students must have at minimum 48 credits of engineering courses from degree-granting programs.

- InterEGR courses are not included in this category except INTEREGR 170 Design Practicum.
- Only 3 credits of an engineering independent study may count (e.g., B M E 399 Independent Study, B M E 489 Honors in Research, CBE 699 Advanced Independent Studies, etc.).
- Special topics courses must have prior approval of the B M E Curriculum Committee.

## BIOMEDICAL ENGINEERING AREA TECHNICAL ELECTIVE REQUIREMENTS

- Choose 15 credits of area technical electives in one of the following areas below.
- Choose at least one advanced B M E elective from any area below.
- Introduction to engineering courses (CBE 150, E C E 210, E C E/COMP SCI 252, G L E 171, INTEREGR 170, I SY E 191, M E 201, M S & E 260, and NAV SCI 301), seminar courses, and research credits

cannot count in these areas. Special topics courses must have prior approval of the BME Curriculum Committee.

### Bioinstrumentation and Medical Devices:

Code	Title	Credits
<b>Required Area Elective</b>		
E C E 230	Circuit Analysis	4
<b>Area Electives in Bioinstrumentation</b> <b>11</b>		
Choose from any ECE course, the courses below, and from the advanced BME electives in this area		
M E 445	Mechatronics in Control & Product Realization	3
<b>Advanced BME Area Technical Electives in Bioinstrumentation and Medical Devices</b>		
B M E/E C E 462	Medical Instrumentation	3
B M E/E C E 463	Computers in Medicine	3
B M E/ MED PHYS 535	Introduction to Energy-Tissue Interactions	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3
B M E 640	Medical Devices Ecosystem: The Path to Product	3

### Biomedical Imaging and Optics:

Code	Title	Credits
<b>Required Area Elective</b>		
E C E 330	Signals and Systems	3
<b>Area Electives in Biomedical Imaging and Optics</b> <b>12</b>		
Choose from the following and from the advanced BME electives in this area		
E C E 203	Signals, Information, and Computation	3
E C E 331	Introduction to Random Signal Analysis and Statistics	3
E C E 431	Digital Signal Processing	3
E C E/ COMP SCI 533	Image Processing	3
B M E/H ONCOL/ MED PHYS/ PHYSICS 501	Radiation Physics and Dosimetry	3
B M E/ MED PHYS 566	Physics of Radiotherapy	3
B M E/ MED PHYS 573	Mathematical Methods in Medical Physics	3
B M E/ MED PHYS 580	The Physics of Medical Imaging with Ionizing Radiation	4
N E 305	Fundamentals of Nuclear Engineering	3
N E 408	Ionizing Radiation	3
N E 427	Nuclear Instrumentation Laboratory	2
<b>Advanced BME Area Technical Electives in Biomedical Imaging and Optics</b>		
B M E/ MED PHYS 530	Medical Imaging Systems	3

B M E/ MED PHYS 535	Introduction to Energy-Tissue Interactions	3
B M E/ MED PHYS 578	Non-Ionizing Diagnostic Imaging	4
B M E/MED PHYS/ PHM COL- M/PHYSICS/ RADIOL 619	Microscopy of Life	3
B M E 651	Biophotonics Laboratory	3

### Biomechanics:

Code	Title	Credits
<b>Required Area Elective</b>		
E M A 202 or M E 240	Dynamics	3
<b>Area Electives in Biomechanics</b> <b>12</b>		
Choose from any E M A or M E course, the courses below, and from the advanced B M E electives in this area		
M S & E 350 or M S & E 351	Introduction to Materials Science Materials Science-Structure and Property Relations in Solids	3
M S & E/CHEM 421	Polymeric Materials	3
CBE 320 or B M E 330	Introductory Transport Phenomena Engineering Principles of Molecules, Cells, and Tissues	4
CBE 324	Transport Phenomena Lab	3
CBE/M E 525	Macromolecular Hydrodynamics	3
<b>Advanced B M E Area Technical Electives in Biomechanics</b>		
B M E/M E 414	Orthopaedic Biomechanics - Design of Orthopaedic Implants	3
B M E/M E 415	Biomechanics of Human Movement	3
B M E/M E 505	Biofluidics	3
B M E/M E 516	Finite Elements for Biological and Other Soft Materials	3
B M E/I S Y E 564	Occupational Ergonomics and Biomechanics	3
B M E/M E 615	Tissue Mechanics	3
B M E/I S Y E 662	Design and Human Disability and Aging	3

### Biomaterials, Cellular and Tissue Engineering:

Code	Title	Credits
<b>Required Area Elective</b>		
B M E 330 or CBE 320	Engineering Principles of Molecules, Cells, and Tissues Introductory Transport Phenomena	4
<b>Area Electives in Biomaterials, Cellular and Tissue Engineering</b> <b>12</b>		
Choose from any CBE or M S & E course, the courses below, and from the advanced B M E electives in this area		
M E 417	Transport Phenomena in Polymer Processing	3
M E 418	Engineering Design with Polymers	3
M E/STAT 424	Statistical Experimental Design	3
B M E 511	Tissue Engineering Laboratory	1

**Advanced BME Area Technical Electives in Biomaterials, Cellular and Tissue Engineering**

B M E 510	Introduction to Tissue Engineering	3
B M E 520	Stem Cell Bioengineering	3
B M E 545	Engineering Extracellular Matrices	3
B M E 550	Introduction to Biological and Medical Microsystems	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3
B M E/CBE 560	Biochemical Engineering	3
B M E/M E 615	Tissue Mechanics	3
B M E 630	Nanomaterials for Biomedical Applications	3

**HONORS IN UNDERGRADUATE RESEARCH PROGRAM**

Qualified undergraduates may earn an Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

**TOTAL DEGREE CREDITS: AT LEAST 128**

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must

consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

**FOUR-YEAR PLAN**

**SAMPLE FOUR-YEAR PLAN**

**First Year**

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109 (or CHEM 103 & CHEM 104) <sup>1</sup>		5 E M A 201, PHYSICS 201, or PHYSICS 207 <sup>2</sup>	3
Communications A		3 CHEM 343	3
INTEREGR 170 <sup>3</sup>		3 INTEREGR 170 <sup>3</sup>	3
or Liberal Studies Elective <sup>Med</sup>		or Liberal Studies Elective <sup>Med</sup>	
		COMP SCI 200, 220, or 300 <sup>4</sup>	3
	<b>16</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
B M E 200 <sup>5</sup>		2 B M E 201	3
MATH 234		4 MATH 320 or 319	3
PHYSICS 202 or 208		5 E M A 303 or M E 306	3
B M E 325, STAT 324, or STAT 431 <sup>4</sup>		3 Free-General Elective Credits <sup>Med</sup>	2
Science Elective <sup>6, Med</sup>		3 B M E 310 <sup>7</sup>	3
		Liberal Studies Elective	3
	<b>17</b>		<b>17</b>

**Third Year**

Fall	Credits	Spring	Credits
B M E 300 <sup>6</sup>		3 Liberal Studies Elective	3
Liberal Studies Elective		3 Free-General Elective Credits	2
B M E 315 <sup>7</sup>		3 Free-Engineering Technical Elective	2
Select one of the following options:		5 Area-Engineering Technical Elective	3
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102		Select one of the following options:	3
ZOOLOGY/ BIOLOGY/ BOTANY 151 <sup>Med</sup>		B M E 301 <sup>9</sup>	



BIOCORE 381 & BIOCORE 382 (the first lab - 382 - is recommended not required) <sup>8, Med</sup>		ZOOLOGY/ BIOLOGY/ BOTANY 152	
Area-Required Engineering Technical Elective	3	BIOCORE 383 & BIOCORE 384	
E C E 230		B M E/PHM SCI 430 <sup>7</sup>	3
E C E 330			
E M A 202 or M E 240			
B M E 330 or CBE 320			
	<b>17</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
B M E 400	3	B M E 402 <sup>5</sup>	3
Select one of the following options: <sup>Med</sup>	5	Liberal Studies Elective <sup>Med</sup>	3
ANAT&PHY 335		Advanced Zoology Elective, select one of the following:	3
BIOCORE 485 & BIOCORE 486		ANAT&PHY 337	
Area-Engineering Technical Elective	3	GENETICS 466	
Area-Engineering Technical Elective	3	ZOOLOGY 470	
		ZOOLOGY/ PSYCH 523	
		ZOOLOGY 570	
		BIOCORE 587	
		Advanced Biomedical Engineering Technical Elective	3
		Area-Engineering Technical Elective	3
	<b>14</b>		<b>15</b>

**Total Credits 128****FOOTNOTES****Med**

–These courses are identified as requirements for most medical schools and are included within the 128 degree credits. Students not wishing to attend medical school may choose any of the listed options. Choosing other options will affect the total number of credits. Medical schools have varying requirements. Liberal electives, free-general electives, and zoology electives can often be used to satisfy these. **Check requirements early.** For example, to prepare for the MCAT it is recommended that students take psychology and sociology. In addition, some schools require an intermediate humanities or social science with an intensive writing component (Comm B) or credits in the English department. All these can be fulfilled within the liberal studies requirements and thus early planning starting freshman year is important. A good resource is: <http://prehealth.wisc.edu/>.

**1**

CHEM 103 General Chemistry I & CHEM 104 General Chemistry II may be substituted for CHEM 109 Advanced General Chemistry. For this choice, the excess 4 credits are counted as free-general electives. Most medical schools require one year of basic chemistry. UW–Madison’s medical school (and others) accepts CHEM 109 as a full-year equivalent.

**2**

It is highly recommended that students take E M A 201 Statics instead of PHYSICS 201 General Physics. If PHYSICS 201 is chosen instead of E M A 201, another engineering course from a degree-granting engineering program might need to be substituted for E M A 201. The excess 5 credits from PHYSICS 201 are counted as free-general elective credits. E M A 201 Statics is a requisite for E M A 303/M E 306 Mechanics of Materials and thus taking PHYSICS 201/PHYSICS 208 General Physics is not recommended.

**3**

INTEREGR 170 Design Practicum is required only for students directly admitted to B M E as freshmen and counts toward the 48 engineering credits.

**4**

It is recommended that students take statistics and/or computer science in the freshman year for those needing additional core course options.

**5**

Students who are admitted late to the program and/or students who take part in another experience (such as co-op and/or study abroad), missing B M E 200 Biomedical Engineering Design or B M E 300 Biomedical Engineering Design and Leadership, or students who may graduate early missing B M E 402 Biomedical Engineering Capstone Design II on a rare approved exception, may substitute for up to two of these courses for the semester they are not in the program or at UW–Madison.

Approved substitutions include: B M E 1 Cooperative Education Program, engineering research credit, or any 200-level or above additional engineering technical elective lab or design experience.

For more information on the unique design sequence see: <http://bmedesign.engr.wisc.edu/about/>.

**6**

Premeds or students interested in biomaterials, cellular and tissue engineering should choose to take CHEM 345 and it is recommended to use Free-General Electives for CHEM 344.

**7**

The three core courses are all required: B M E 310 Bioinstrumentation, B M E 315 Biomechanics, B M E/PHM SCI 430 Biological Interactions with Materials, but they can be taken in any order. It is recommended that students take the one in their track of interest first, or as early as possible.

## 8

Students very serious about medical school or a career in research and learning about biology may select to apply for BIOCORE, a rigorous biology honors program:

- BIOCORE 381 Evolution, Ecology, and Genetics
- BIOCORE 382 Evolution, Ecology, and Genetics Laboratory
- BIOCORE 383 Cellular Biology
- BIOCORE 384 Cellular Biology Laboratory
- BIOCORE 485 Principles of Physiology
- BIOCORE 486 Principles of Physiology Laboratory

The BIOCORE courses have limited enrollment and students must be accepted into this program (applying as freshman). It is generally advisable to complete the entire sequence once it is started. Only BIOCORE 382 Evolution, Ecology, and Genetics Laboratory is not required and is not necessary to fulfill premed requirements; however, it is recommended as it has been helpful in understanding the BIOCORE lab process. If all the other BIOCORE courses are taken (a total of 16 cr), this will replace the ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory, the Advanced Life Science Elective, ANAT&PHY 335 Physiology, and fulfill the Communication B requirement.

## 9

Students interested in pre-health programs should take ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology or BIOCORE 384 Cellular Biology Laboratory to satisfy Communication Part B instead of B M E 301 Biomedical Engineering Design and Communication.

Walter Block  
 Christopher Brace  
 Kevin Elceiri  
 Shaoqin 'Sarah' Gong  
 Aviad Hai  
 Melissa Kinney  
 Pamela Kreeger  
 Wan-ju Li  
 Kip Ludwig  
 Kristyn Masters  
 Megan McClean  
 Beth Meyerand  
 William Murphy  
 Krishanu Saha  
 Melissa Skala  
 Darryl Thelen  
 Justin Williams  
 Colleen Witzenburg  
 Filiz Yesilkoy

## INSTRUCTIONAL STAFF AND TEACHING FACULTY

Amit Nimunkar  
 John Puccinelli  
 Tracy Jane Puccinelli  
 Darilis Suarez-Gonzalez  
 Aaron Suminski

See also Biomedical Engineering Faculty Directory (<http://directory.engr.wisc.edu/bme/>).

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### FACULTY

Paul Campagnola (Chair)  
 Randolph Ashton  
 David Beebe

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Bioengineering and Biomedical and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## CHEMICAL AND BIOLOGICAL ENGINEERING

Chemical engineers exploit advances in chemistry and biology to create new products, design chemical processes, develop energy resources, and protect the environment. Students receive a thorough grounding in chemistry, biology, mathematics and physics. With this broad scientific training, chemical engineers work effectively on a diverse set of problems involving chemical, physical, and biological phenomena. For example, chemical engineers develop environmentally benign and safe processes to make the chemical products that people depend on. They work in research and development laboratories, creating polymeric materials with improved performance and durability. They work in manufacturing, making vaccines and antibiotics. They invent new ways to keep our food and water supplies safe. Opportunities for chemical engineers span numerous

industries: pharmaceuticals, polymers, energy, food, consumer products, biotechnology, and electronic and optical materials. Graduates understand the needs of society, and use their training in science and technology to meet those needs.

The chemical engineering program develops the student's capability for invention and analysis of chemical processes and products. Students in the program take several classes in chemistry, along with courses in physics, mathematics, and biology. The curriculum provides a rigorous education in the fundamental chemical engineering sciences of thermodynamics, transport phenomena, and kinetics, as well as more applied areas such as materials science, biochemical engineering, or chemical process design. Because engineers must be skilled communicators, the curriculum places considerable emphasis on technical report writing, team projects, and formal and informal oral presentation. In addition, students broaden their understanding of people and society by taking several courses in the humanities and social sciences.

The B.S. program in chemical engineering leads to a wide variety of careers. Graduates are prepared for professional lives in industry, government, engineering design, or consulting companies. Graduates with a more practical, hands-on approach are employed in manufacturing support, process development, product development, design, construction, or technical sales. They rapidly advance to responsible technical supervisory and management positions. Graduates with a research interest work to improve understanding of scientific engineering principles, and to apply these principles to solve emerging problems. Entrepreneurial graduates work in smaller enterprises, or create their own businesses, developing the major industries of tomorrow. An undergraduate degree in chemical engineering provides a strong basis for advanced study in graduate school, or for further training in medicine, law, or policy.

## DEGREES/MAJORS/CERTIFICATES

- Chemical Engineering, B.S. (p. 259)

## PEOPLE

### PROFESSORS

Eric V. Shusta (Chair)  
 Michael David Graham  
 George Huber  
 Daniel J. Klingenberg  
 David M. Lynn  
 Manos Mavrikakis  
 Regina Murphy  
 Sean P. Palacek  
 Brian F. Pflieger  
 Thatcher Root  
 John Yin  
 Victor Zavala

### ASSOCIATE PROFESSORS

Ross E. Swaney

### ASSISTANT PROFESSORS

Styliani Avraamidou  
 Matthew Gebbie  
 Siddarth Krishna

Whitney Loo  
 Marcel Schreier  
 Reid Van Lehn

### TEACHING FACULTY

Brendan Blackwell  
 Eric Codner  
 Kate Dahlke  
 Andrew Greenberg

### RESEARCH PROFESSOR

William Banholzer

See also Chemical and Biological Engineering Faculty Directory (<https://directory.engr.wisc.edu/che/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

For information about scholarships, see Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>).

### FACILITIES

Facilities available for instruction and research include:

Biochemical Process Lab  
 Electrochemistry Lab  
 Plastics Lab  
 Process Dynamics and Control Lab  
 Research Labs  
 Transport Phenomena Lab  
 Unit Operations Lab

## CHEMICAL ENGINEERING, B.S.

Chemical engineers exploit advances in chemistry and biology to create new products, design chemical processes, develop energy resources, and protect the environment. Students receive a thorough grounding in chemistry, biology, mathematics and physics. With this broad scientific training, chemical engineers work effectively on a diverse set of problems involving chemical, physical, and biological phenomena. For example, chemical engineers develop environmentally benign and safe processes to make the chemical products that people depend on. They work in research and development laboratories, creating polymeric materials with improved performance and durability. They work in manufacturing, making vaccines and antibiotics. They invent new ways to keep our food and water supplies safe. Opportunities for chemical engineers span numerous industries: pharmaceuticals, polymers, energy, food, consumer products, biotechnology, and electronic and optical materials. Graduates understand the needs of society, and use their training in science and technology to meet those needs.

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The B.S. program in chemical engineering leads to a wide variety of careers. Graduates are prepared for professional lives in industry, government, engineering design, or consulting companies. Graduates with a more practical, hands-on approach are employed in manufacturing support, process development, product development, design, construction, or technical sales. They rapidly advance to responsible technical supervisory and management positions. Graduates with a research interest work to improve understanding of scientific engineering principles, and to apply these principles to solve emerging problems. Entrepreneurial graduates work in smaller enterprises, or create their own businesses, developing the major industries of tomorrow. An undergraduate degree in chemical engineering provides a strong basis for advanced study in graduate school, or for further training in medicine, law, or policy.

## CHEMICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

The department recognizes that our graduates will choose to use the knowledge and skills they have acquired during their undergraduate years to pursue a wide variety of career and life goals and we encourage this diversity of paths.

Whatever path graduates choose, be it a job, graduate school, or volunteer service, be it in engineering or another field, within the next 5 years and beyond, we have for our graduates the following objectives:

1. That they will exhibit strong skills in problem-solving, leadership, teamwork, and communication;
2. That they will use these skills to contribute to their communities;
3. That they will make thoughtful, well-informed career choices; and
4. That they will demonstrate a continuing commitment to and interest in education (their own and others').

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-

campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students admitted to the chemical engineering degree program.

Code	Title	Credits
Mathematics		19
Physics		10
Chemistry		20
Life Science		6
Core Engineering Requirement		49
Professional Breadth		6
Communication Skills		6
Liberal Studies Requirement		16
<b>Total Credits</b>		<b>132</b>

## MATHEMATICS REQUIREMENT

The calculus requirement must be met with a minimum of 12 credits to cover the three-course basic math sequence. Any deficiency in total math credits must be made up with electives in science or engineering.

Code	Title	Credits
MATH 221 or MATH 217 or MATH 275	Calculus and Analytic Geometry 1 Calculus with Algebra and Trigonometry II Topics in Calculus I	5
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	4
MATH 234	Calculus--Functions of Several Variables	4
MATH 320 or MATH 319	Linear Algebra and Differential Equations Techniques in Ordinary Differential Equations	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>19</b>

## PHYSICS REQUIREMENT

Credit shortages caused by transfer physics courses at fewer than 6 credits for the required courses must be made up with another physics course.

Code	Title	Credits
PHYSICS 201 or PHYSICS 207	General Physics General Physics	5
PHYSICS 202 or PHYSICS 208	General Physics General Physics	5
<b>Total Credits</b>		<b>10</b>

## CHEMISTRY REQUIREMENT

Credit shortages cause by transfer of freshman chemistry courses at fewer than 9 credits must be made up with chemistry, biochemistry, or chemical engineering courses.

Code	Title	Credits
<i>General Chemistry (choose one)</i>		5
CHEM 109	Advanced General Chemistry (preferred)	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 329	Fundamentals of Analytical Science	4
CHEM 343 & CHEM 345 & CHEM 344	Organic Chemistry I and Organic Chemistry II and Introductory Organic Chemistry Laboratory	8
CHEM 562	Physical Chemistry	3
<b>Total Credits</b>		<b>20</b>

## LIFE SCIENCE

Students who meet the Introductory Biology requirement with an AP exam are encouraged to take two advanced biology electives.<sup>1</sup>

Code	Title	Credits
<i>Introductory Biology requirement (choose one)</i>		3
PL PATH 375	Special Topics (Topic: Intro Biology for Engineers)	
ZOOLOGY 153	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
<i>Advanced Biology requirement (choose one)</i>		3
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
ZOOLOGY 570	Cell Biology	
GENETICS 466	Principles of Genetics	
MICROBIO 303	Biology of Microorganisms	
<b>Total Credits</b>		<b>6</b>

1

BIOCORE 381 Evolution, Ecology, and Genetics and BIOCORE 383 Cellular Biology may be used to satisfy the Life Sciences Requirements.

## CORE ENGINEERING REQUIREMENT

Code	Title	Credits
CBE 150	Introduction to Chemical Engineering	1
CBE 250	Process Synthesis (with a grade of C or better)	3

CBE 255	Introduction to Chemical Process Modeling	3
CBE 310	Chemical Process Thermodynamics (with a grade of C or better)	3
CBE 311	Thermodynamics of Mixtures (with a grade of C or better)	3
CBE 320	Introductory Transport Phenomena (with a grade of C or better)	4
CBE 324	Transport Phenomena Lab	3
CBE 326	Momentum and Heat Transfer Operations	3
CBE 424	Operations and Process Laboratory	5
CBE 426	Mass Transfer Operations	3
CBE 430	Chemical Kinetics and Reactor Design	3
<i>Select one of the following:</i>		3
CBE 440	Chemical Engineering Materials	
CBE 540	Polymer Science and Technology	
CBE 547	Introduction to Colloid and Interface Science	
CBE 450	Process Design	3
CBE 470	Process Dynamics and Control	3
CBE Electives <sup>2</sup>		6
<b>Total Credits</b>		<b>49</b>

**2**

Chemical Engineering electives may be chosen from any of the CBE courses that are not required, numbered 300 or above (excluding seminar courses). A maximum of two credits of co-op work (CBE 1 Cooperative Education Program) may be used to meet the CBE elective requirement. Qualified undergraduates may take graduate-level (600 or 700) courses to fulfill this requirement.

**PROFESSIONAL BREADTH**

Select 6 credits

Code	Title	Credits
<b>Professional Breadth Credits<sup>3</sup></b>		<b>6</b>
<i>Courses 300+ from the following College of Engineering departments and programs may be used:</i>		
	Biomedical Engineering	
	Civil and Environmental Engineering	
	Electrical and Computer Engineering	
	Engineering Mechanics and Astronautics	
	Engineering Professional Development	
	Geological Engineering	
	Industrial Engineering	
	Interdisciplinary Courses (Engineering)	
	Materials Science and Engineering <sup>4</sup>	
	Mechanical Engineering	
	Nuclear Engineering	
	Engineering Physics	
<i>Courses 300+ from the following departments in the College of Letters and Sciences may be used:</i>		
	Chemistry	
	Computer Sciences	

Math		
Physics		
<i>The following courses may also be used:</i>		
ACCT I S 300	Accounting Principles	
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507	General Biochemistry I	
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BSE 364	Engineering Properties of Food and Biological Materials	
BSE/ ENVIR ST 367	Renewable Energy Systems	
ECON/A A E/ ENVIR ST 343	Environmental Economics	
ENVIR ST/ GEOSCI 411	Energy Resources	
ENVIR ST/ PHILOS 441	Environmental Ethics	
FINANCE/ ECON 300	Introduction to Finance	
FOOD SCI 550	Fermented Foods and Beverages	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	
GENETICS 466	Principles of Genetics	
M H R 300	Managing Organizations	
MICROBIO 303	Biology of Microorganisms	
STAT/M E 424	Statistical Experimental Design	
ZOOLOGY 570	Cell Biology	
<b>Total Credits</b>		<b>6</b>

Students may petition the department to allow other courses related to engineering professional practice. To request that a course not listed above be used, the student should fill out the Professional Breadth Requirement Course Request form available online and submit it to the advisor. The department will then determine if the course can be counted toward the Professional Breadth Requirement. Petitions must be submitted before the beginning of the semester in which the course is to be taken.

**3**

The objective of this requirement is to provide students with skills to interact with professionals from other disciplines. Suitable courses for this requirement include courses in engineering (excluding CBE) and science, as well as a variety of other disciplines.

**4**

Full degree credit is not allowed if a student takes both CBE 440 Chemical Engineering Materials and M S & E 350 Introduction to Materials Science. In this case M S & E 350 Introduction to Materials Science will be awarded only 1 degree credit.

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100	Introduction to College Composition <sup>5</sup>	3
	or COM ARTS 100 Introduction to Speech Composition	

or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
INTEREGR 397	Engineering Communication	3

5

For Part A of the General Education Communication Requirement (3 cr) students must select one course with an "a" designation in "g" of the "geBLC" information in the Course Guide. Some students will be exempt from this requirement based on their placement test scores or advanced placement in English.

CBE 424 Operations and Process Laboratory satisfies Part B of the General Education Communication Skills Requirement.

## LIBERAL STUDIES ELECTIVES

Students must complete 16 credits of liberal studies according to the College of Engineering requirements.

1. Liberal studies elective courses must be classified as either Humanities, Social Studies, or Literature courses (identified by the letters H, S, L, or Z in "B" of the "geBLC" information in the Guide). At least six credits must have a breadth designation of Humanities (H, L, or Z), and at least three credits must have a designation of Social Studies (S or Z). Foreign language courses count as H credits.
2. A three-credit ethnic studies course must be selected from the College of Letters & Science. Acceptable courses are identified by the letter "e" in Guide. If appropriate, the ethnic studies course may be among those used to satisfy the concentration requirement.
3. A minimum of two liberal studies courses must be taken from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be at an intermediate or advanced level (designated in Guide).
4. Retroactive credits may be awarded for foreign-language work done in high school. The following conditions apply:
  - a. A university-level foreign language course must be taken before the student has earned 30 college credits in residence.
  - b. Retroactive Language Credit Request Form must be completed and submitted to the language instructor during the first two weeks of class
  - c. The student must earn a B or better in this course.
  - d. Such credits do not count toward the 16 liberal-studies credits required. They may, however, be used to satisfy the concentration and depth requirements as stated in number three above and count as degree credits.
5. English composition courses, English as a Second Language courses, and basic communications arts courses are not accepted as liberal studies electives.

## FREE ELECTIVES

Students fulfilling their course requirements with fewer than 132 credits must take additional free-elective credits to comply with the 132-credit minimum graduation requirement.

## COURSE SUBSTITUTION REGULATIONS

1. Any student may, with advisor approval, replace up to 12 credits of required courses in the curriculum, except CBE 424 Operations and Process Laboratory, by an equal number of credits of other courses within the limitations listed under (3) below.

2. Any student who wishes to amend the curriculum by more than 12 credits or wishes to appeal the advisor's decision in (1) or to request exception to (3) below must submit a written request to the chair of the department, who will bring it to the department faculty for consideration.
3. Restrictions on course substitutions are as follows:
  - a. Physics courses may be replaced by science or engineering courses.
  - b. Chemistry/life science courses must be replaced by courses with significant chemistry/life science content.
  - c. Engineering courses must be replaced by engineering courses.
  - d. Lab courses must be replaced by courses with an equal number of hours of lab courses.
  - e. English as a Second Language courses, and MATH 112 Algebra, MATH 113 Trigonometry, and MATH 114 Algebra and Trigonometry may not be used for course substitutions.

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

The Honors in Research program in Chemical Engineering is designed for students who wish to have a more in-depth research experience and is particularly recommended for students considering enrollment in a PhD program. To be accepted into the Honors in Research program, students must have completed at least two semesters on the UW-Madison campus with a cumulative GPA of at least 3.5 and should find a faculty mentor. Students register for 1-3 credits of CBE 489 Honors in Research and are expected to complete at least 8 credits of CBE 489 over 2-3 semesters. Students must also write a senior thesis and present the work to a committee of faculty. Students meeting all requirements, and maintaining a cumulative GPA of at least 3.3, will receive the Honors in Research designation upon graduation.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

- an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- an ability to communicate effectively with a range of audiences
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- an ability to acquire and apply new knowledge as needed, using appropriate learning strategies
- ability with engineering application of the basic sciences to the design, analysis, and control of chemical, physical, and biological processes, including the hazards associated with these processes.

Liberal Studies Elective	3 Liberal Studies Elective	4	
		<b>16</b>	<b>16</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CBE 426	3	CBE 450	3
CBE 430	3	CBE 470	3
CBE Elective	3	CBE Elective	3
Materials Elective	3	Professional Breadth Elective	3
Liberal Studies Elective	3		
		<b>15</b>	<b>12</b>
			<b>5</b>

**Total Credits 132**

1

CBE 250 Process Synthesis and CBE 320 Introductory Transport Phenomena both require a grade of C or better.

2

CHEM 343 Organic Chemistry I requires a grade of C or better.

**FOUR-YEAR PLAN****SAMPLE FOUR-YEAR PLAN****First Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CHEM 109	5	CHEM 329	4
MATH 221	5	MATH 222	4
CBE 150	1	PHYSICS 201	5
Communications A	3	Liberal Studies Elective	3
Liberal Studies Elective	3		
		<b>17</b>	<b>16</b>

**Second Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CBE 250 <sup>1</sup>	3	CBE 255	3
CHEM 343 <sup>2</sup>	3	MATH 320 or 319	3
MATH 234	4	CBE 310	3
PHYSICS 202	5	CHEM 345 & CHEM 344	5
ZOOLOGY 153	3	STAT 324	3
		<b>18</b>	<b>17</b>

**Third Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CBE 311	3	CBE 326	3
CBE 320 <sup>1</sup>	4	CBE 324	3
Professional Breadth Elective	3	CHEM 562	3
Advanced Biology Elective	3	INTEREGR 397	3

**ADVISING AND CAREERS****ADVISING**

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

**ENGINEERING CAREER SERVICES**

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

**PEOPLE****PROFESSORS**

Eric V. Shusta (Chair)  
 Michael David Graham  
 George Huber  
 Daniel J. Klingenberg  
 David M. Lynn  
 Manos Mavrikakis  
 Regina Murphy  
 Sean P. Palacek



Brian F. Pfleger  
Thatcher Root  
John Yin  
Victor Zavala

## ASSOCIATE PROFESSORS

Ross E. Swaney

## ASSISTANT PROFESSORS

Styliani Avraamidou  
Matthew Gebbie  
Siddarth Krishna  
Whitney Loo  
Marcel Schreier  
Reid Van Lehn

## TEACHING FACULTY

Brendan Blackwell  
Eric Codner  
Kate Dahlke  
Andrew Greenberg

## RESEARCH PROFESSOR

William Banholzer

See also Chemical and Biological Engineering Faculty Directory (<https://directory.engr.wisc.edu/che/faculty/>).

## ACCREDITATION

## ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Chemical, Biochemical, Biomolecular, and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## CIVIL AND ENVIRONMENTAL ENGINEERING

The Department of Civil and Environmental Engineering delivers research and educational programs that help make our environment, society, and communities better places in which to live, work, and play. This is done with a commitment to meeting the societal, environmental, and financial needs of today's generation without sacrificing the ability to meet these needs for future generations – the core principles of sustainability. All three of the department's undergraduate degree programs create career opportunities to:

- Ensure the health, safety, and welfare of the public and the environment,
- Develop and maintain our water, earth, and energy resources,

- Create and operate smart cities and smart infrastructure systems based on analysis of "big data," and
- Work with next generation materials and construction systems.

High-impact educational practices are used in delivering the three undergraduate degree programs, including opportunities to:

- Engage with faculty on innovative research projects,
- Develop career skills by participating in internship or cooperative education with an engineering company,
- Broaden horizons by studying abroad,
- Work with nearby communities in the award-winning senior capstone design class, and
- Lead student organizations in numerous activities, including design competitions like concrete canoe, steel bridge, and others.

The department is committed to ensuring its students are well placed on the pathway to professional engineering licensure and careers in the field. We invite you to explore the details of each degree program by clicking the link to our degrees, majors, and certificates.

## DEGREES/MAJORS/CERTIFICATES

- Architecture, Certificate (p. 266)
- Civil Engineering, B.S. (p. 267)
- Environmental Engineering, B.S. (p. 277)
- Geological Engineering, B.S. (p. 282)

## PEOPLE

### PROFESSORS

William Likos (Chair)  
Soyoung Ahn  
Hussain Bahia  
Awad Hanna  
Gregory W. Harrington  
James P. Hurley  
Steve P. Loheide II  
Katherine (Trina) McMahon  
Daniel Noguera  
David Noyce  
Jae Park  
Gustavo Parra-Montesinos  
Bin Ran  
Jeffrey Russell  
James Jay Schauer  
Chin H. Wu

### ASSOCIATE PROFESSORS

Paul Block  
Dante Fratta  
Matthew Ginder-Vogel  
Andrea Hicks  
Xiaopeng Li  
Jose Pincheira  
Pavana Prabhakar  
Christy Remucal  
Hiroki Sone  
James Tinjum

Daniel Wright

## ASSISTANT PROFESSORS

Hannah Blum  
Sikai Chen  
Jesse Hampton  
Nimish Pujara  
Mohan Qin  
Bu Wang  
Haoran Wei  
Zhenhua Zhu

See also Civil and Environmental Engineering Faculty Directory (<https://directory.engr.wisc.edu/cee/faculty/>).

## RESOURCES AND SCHOLARSHIPS

## FACILITIES

Facilities available include modern and fully equipped laboratories for instruction and research in the following areas:

Environmental Engineering  
Fluid Mechanics  
Geoengineering  
Hydraulics  
Data Acquisition and Analysis  
Structures and Materials Testing  
Transportation Engineering  
Environmental Chemistry and Technology

## ARCHITECTURE, CERTIFICATE

The mission of the Certificate in Architecture is to provide UW-Madison students an opportunity to explore theories and practices of architecture, and the design and meaning of the built environment within socio-political, historical, cultural, and ecological contexts.

The population of the world now exceeds eight billion, half of which live in cities. These numbers will only increase as the century progresses, and the need to understand the issues and challenges in maintaining health, safety, and quality of life in the built environment has never been greater. A collaboration of architects, engineers, interior designers, landscape architects, and urban planners will be needed to apply art and science to address these challenges, using lessons from history to understand contemporary problems.

The certificate requirements create collaborative opportunities for students in engineering, architecture, art history, interior architecture, landscape architecture, and planning. For example, the certificate offers opportunities for engineering students to take courses in art history with students from art history and other majors. Similarly, art history students have opportunities to take courses in engineering, and so on. These cross-college educational opportunities are rare within established curriculum requirements and offer rich experiences for understanding the perspectives, theories, and practices of those in different professions.

At least 3 of the 15 credits will be taught online as a UW-Madison course number by architecture faculty at the University of Wisconsin - Milwaukee.

## HOW TO GET IN

All undergraduate students in good academic standing are eligible to apply. We encourage students to declare as early as possible in order to plan their required coursework. Students should complete and submit the declaration form (<https://engineering.wisc.edu/programs/certificates/architecture/declaration/>) to declare the certificate.

## REQUIREMENTS

### PROGRAM REQUIREMENTS

- Students must successfully complete at least 15 credits, including 9 credits in courses numbered 300 or higher.
- Students must complete certificate courses with a GPA of 2.000 or higher.
- Courses completed on a pass/fail or credit/no credit basis will not count toward these requirements.

#### Required Coursework

Code	Title	Credits
<b>Studio Requirement</b>		<b>3</b>
CIV ENGR 151	Architectural Making I	
<b>Architectural History Course</b>		<b>3-4</b>
<i>Choose one from the following:</i>		
CIV ENGR 155	Architectural Thinking	
ART HIST 210	A History of the World in 20 Buildings	
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	
LAND ARC 260	History of Landscape Architecture	
<b>Electives</b>		<b>8-9</b>
<i>Must select courses from at least two different focus areas.</i>		
<b>Area 1: Studio</b>		
CIV ENGR 152	Architectural Making II	
CIV ENGR 352	Frank Lloyd Wright - Design Seminar	
CIV ENGR 451	Architectural Design	
DS 120	Design: Fundamentals I	
LAND ARC 210	Introduction to Landscape Architecture Design	
LAND ARC 261	Principles of Landscape Architecture Design and Graphics	
<b>Area 2: History</b>		
CIV ENGR 150	Introduction to Architectural Theory	
CIV ENGR 155	Architectural Thinking	
ART HIST 210	A History of the World in 20 Buildings	
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 318	Romanesque and Gothic Art and Architecture	

ART HIST 357	History of Wisconsin Architecture, 1800-present
ART HIST/ RELIG ST 373	Great Cities of Islam
ART HIST/ ASIAN 379	Cities of Asia
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 413	Art and Architecture in the Age of the Caliphs
ART HIST 457	History of American Vernacular Architecture and Landscapes
ART HIST 468	Frank Lloyd Wright
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries
LAND ARC 250	Survey of Landscape Architecture Design
LAND ARC 260	History of Landscape Architecture
URB R PL/ GEOG 305	Introduction to the City
Area 3: Tools	
CIV ENGR 250	Architectural Visualization
CIV ENGR 392	Building Information Modeling (BIM)
DS/ COMP SCI 579	Virtual Reality
LAND ARC 210	Introduction to Landscape Architecture Design
LAND ARC 211	Shaping the Built Environment
CIV ENGR 159	Civil Engineering Graphics (was ME 170 before Fall 2023)
Area 4: Construction	
CIV ENGR 496	Electrical Systems for Construction
CIV ENGR 497	Mechanical Systems for Construction
DS 223	Interior Architectural Design
M E 461	Thermal Systems Modeling

## LEARNING OUTCOMES

1. Demonstrate knowledge of basic concepts in architecture and related disciplines
2. Employ skills in scale and proportion, composition and form in both 2D and 3D
3. Distinguish and develop a working knowledge of significant developments in architectural thinking across time and in a cross-cultural context
4. Apply critical thinking to ideas and theories in the history of architecture

## PEOPLE

The Certificate in Architecture is a collaboration of the following departments:

- UW-Madison's Department of Civil and Environmental Engineering
- UW-Madison's Department of Art History
- UW-Madison's Department of Design Studies
- UW-Madison's Department of Mechanical Engineering
- UW-Madison's Department of Planning and Landscape Architecture
- UW-Milwaukee's Department of Architecture

Faculty representatives of the UW-Madison departments are as follows:

- Greg Harrington, Professor, Civil and Environmental Engineering (Certificate Director)
- Anna Andrzejewski, Professor, Art History
- Michael Cheadle, Assistant Teaching Professor, Mechanical Engineering
- Uchita Vaid, Assistant Professor, Design Studies
- Edna Ledesma, Assistant Professor, Planning & Landscape Architecture

## CIVIL ENGINEERING, B.S.

Civil engineers are responsible for the sustainable design of facilities that protect the health and welfare of communities and the environment, while also ensuring society's financial health. More specifically, they are responsible for the conception, design, and construction of public works such as:

- the highways, streets, and bridges that we walk, bike, and drive on
- the water systems and earthworks that treat the water we drink, manage the water we swim in and boat on, and protect us and our property from floodwaters
- the homes, schools, factories, theaters, and stadiums in which we live, learn, work, and play
- the airports, railways, waterways, and harbors that provide additional mobility for people and the materials they produce and consume
- the treatment and emission systems that ensure the safety of the air we breathe
- the recycling, reuse, and disposal systems used to minimize the production of and also provide for the containment of the solid and hazardous wastes we produce
- the production and transmission facilities for the electricity we use, including generation facilities for both conventional and renewable energy sources

Civil engineers are also responsible for the operation of these facilities, an aspect of the field that is being rapidly integrated into the Internet of Things with real-time "big data" collection systems for automated control. This makes it possible for society to rely on:

- autonomous cars, trucks, and mass transport systems, providing safer travel with reduced traffic congestion, improved roadway capacity, reduced energy consumption and air emissions
- smart water infrastructure, including systems that will reduce water consumption, save energy, and improve community resiliency in the wake of natural and human-caused disasters

- intelligent buildings, including systems that reduce energy consumption, improve employee and student comfort, and allow for adaptation of structural systems to changing wind and seismic loads

All of the above items require a core knowledge in mathematics, statistics, physics, chemistry, biology, geology, computer science and computer design tools, as well as breadth in the different civil engineering disciplines. These disciplines include construction engineering and management, environmental engineering, geological and geotechnical engineering, structural engineering, transportation engineering, and water resources engineering. Civil engineers perform their work in an interdisciplinary setting requiring strong written and verbal communication skills, understanding of professional and ethical obligations coupled with risk management and decision-making, and commitment to lifelong learning and professional licensure.

## VISION

Develop and maintain a learning community that pursues new knowledge and understanding, and provides innovative and sustainable solutions to human and ecological needs.

## MISSION OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE) PROGRAM

Create, integrate, and transfer civil engineering knowledge and practice in the development of professionals, leaders, and citizens that help define and serve societal and environmental needs by applying this knowledge and practice in an effective and sustainable manner.

## CIVIL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Prepare BSCE graduates to contribute to their communities through the following career and professional accomplishments:

1. Design and construct both natural and built processes and systems to efficiently meet determined needs using technical knowledge; modern tools; design principles; ethical practice; and communication, leadership, and team skills.
2. Utilize measurement and analysis tools along with experimental data in investigating natural and built systems.
3. Understand and incorporate economic, environmental, political, social, safety and global considerations in design, investigation and construction of natural and built systems.
4. Engage in lifelong learning to keep pace with the continuous evolution of policies, procedures, technologies and tools for engineering analysis, design, and decision making.
5. Serve others through participation in professional and/or civic activities and responsibilities.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements ([\[services/undergraduate-student-advising/progression/\]\(https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/\)\) at the end of the first year to guarantee advancement in that program.](https://engineering.wisc.edu/student-</a></p>
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## CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@enr.wisc.edu](mailto:ugtransfer@enr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students who were admitted to the civil engineering degree program (classification changed to CEE) in fall 2016 or later.

Code	Title	Credits
	Introduction to Engineering	3
	Mathematics and Statistics	19
	Basic Science	16
	Engineering Mechanics	10
	Civil Engineering Mechanics	6
	Civil Engineering Tools	6
	Civil Engineering Breadth	21
	Civil Engineering Design	10
	Engineering Electives	13
	Communications	8
	Liberal Studies	16
<b>Total Credits</b>		<b>128</b>

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 170	Design Practicum	3
<b>Total Credits</b>		<b>3</b>

## MATHEMATICS AND STATISTICS REQUIREMENT

Code	Title	Credits
MATH 221 or MATH 217 or MATH 275	Calculus and Analytic Geometry I Calculus with Algebra and Trigonometry II Topics in Calculus I	5
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	4
MATH 234	Calculus--Functions of Several Variables	4

<i>One of the following courses:</i>		3
STAT 324	Introductory Applied Statistics for Engineers	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
<i>One of the following advanced mathematics courses:</i>		3
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations	

**Total Credits** 19

## BASIC SCIENCE REQUIREMENT

Code	Title	Credits
<i>One of the following:</i>		5
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<i>One of the following:</i>		5
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<i>One of the following:</i>		3
GEOSCI 100	Introductory Geology: How the Earth Works	
GEOSCI/ ENVIR ST 106	Environmental Geology	
<i>One of the following:</i>		3
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY 153	Introductory Biology	
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology	
MICROBIO 101	General Microbiology	
<b>Total Credits</b>		<b>16</b>

## ENGINEERING MECHANICS REQUIREMENT

Code	Title	Credits
E M A 201	Statics (with a grade of C or better)	3
E M A 202 or M E 240	Dynamics Dynamics	3
E M A 303 or M E 306	Mechanics of Materials Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
<b>Total Credits</b>		<b>10</b>

## CIVIL ENGINEERING MECHANICS REQUIREMENT

Code	Title	Credits
CIV ENGR 310	Fluid Mechanics	3
CIV ENGR/ E M A 395	Materials for Constructed Facilities	3
<b>Total Credits</b>		<b>6</b>

**CIVIL ENGINEERING TOOLS REQUIREMENT**

Code	Title	Credits
CIV ENGR 159	Civil Engineering Graphics (was M E 170 before Fall 2023)	2-3
or M E 231	Geometric Modeling for Design and Manufacturing	
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	4
<b>Total Credits</b>		<b>6-7</b>

**CIVIL ENGINEERING BREADTH REQUIREMENT**

Code	Title	Credits
CIV ENGR 311	Hydrosience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/ G L E 330	Soil Mechanics	3
CIV ENGR 340	Structural Analysis I	3
CIV ENGR 370	Transportation Engineering	3
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3
CIV ENGR 498	Construction Project Management	3
<b>Total Credits</b>		<b>21</b>

**CIVIL ENGINEERING DESIGN REQUIREMENT**

Code	Title	Credits
CIV ENGR 578	Senior Capstone Design	4
Every student must take at least one class in at least two of the following CEE disciplines, for a total of 6 credits. One of the two classes MUST be completed BEFORE taking CIV ENGR 578 Senior Capstone Design.		6

*Water Resources*

CIV ENGR 414	Hydrologic Design	
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*Environmental*

CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	

*Structural*

CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	

*Geological*

CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 532	Foundations	

*Transportation*

CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	

Note: If a student takes three or more courses from the above list, two of those courses will count toward this civil engineering design requirement and the other classes will count towards the electives requirement (see section below).

**Total Credits** **10**

**ENGINEERING ELECTIVES REQUIREMENT**

- Students must take at least 3 credits of coursework from an ABET-accredited degree-granting program outside of the Bachelor of Science in Civil Engineering program. INTEREGR and E P D courses do not qualify for meeting this requirement; any courses cross-listed with Civil Engineering (CIV ENGR) do not qualify for meeting this requirement.
- Students must take at least 3 credits of CEE coursework in addition to the civil engineering design requirement. **Note:** Students in the Construction Engineering Management or Environmental Engineering option programs must select from a set of CIV ENGR courses approved for those options.<sup>1,2,3</sup>
- Students must take at least 7 credits of coursework that meets at least one of the following<sup>1,2,3</sup>:
  - Any course offered by an engineering department, including but not limited to CIV ENGR.
  - Any Intermediate or Advanced level course with a breadth designation of Biological Sciences, Physical Sciences and/or Natural Sciences. These courses cannot also carry a breadth designation of Social Sciences, Humanities or Literature.
  - Any of the following business courses: INTEREGR 303 Applied Leadership Competencies in Engineering, ACCT I S 300 Accounting Principles, FINANCE/ECON 300 Introduction to Finance, GEN BUS 301 Business Law, M H R 300 Managing Organizations, REAL EST/A A E/ECON/URB R PL 306 The Real Estate Process

**Total Credits: 13****1**

Up to three credits of CIV ENGR 1 Cooperative Education Program may be used towards Item 2 or 3.

**2**

Up to six credits of research work (CIV ENGR 299 Independent Study, CIV ENGR 489 Honors in Research, and/or CIV ENGR 699 Independent Study) may be used towards Item 2 or 3.

**3**

CIV ENGR 150 Introduction to Architectural Theory, CIV ENGR 151 Architectural Making I, CIV ENGR 152 Architectural Making II, CIV ENGR 155 Architectural Thinking, and CIV ENGR 250 Architectural Visualization cannot be used in Items 2 or 3 above.

**COMMUNICATIONS**

Code	Title	Credits
<i>Communications A (choose one)</i>		3
ENGL 100	Introduction to College Composition	
LSC 100	Science and Storytelling	
COM ARTS 100	Introduction to Speech Composition	
ESL 118	Academic Writing II	
<i>Speech-Related Course (choose one)</i>		2
E P D 275	Technical Presentations <sup>1</sup>	

COM ARTS 105	Public Speaking	
COM ARTS 181	Elements of Speech-Honors Course	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
<i>Writing-Related Courses (choose one)</i>		3
INTEREGR 397	Engineering Communication	
ENGL 201	Intermediate Composition	
<b>Total Credits</b>		<b>8</b>

1  
E P D 275 Technical Presentations and INTEREGR 397 Engineering Communication strongly recommended to satisfy these requirements.

### LIBERAL STUDIES REQUIREMENTS

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 244) <sup>1</sup>		16

#### Requirements specific to Civil Engineering:

*An economics course must be selected from the following list:*

ECON 101	Principles of Microeconomics	
ECON 102	Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	

*A minimum of three credits of environmental studies course that meets the breadth designations of humanities, literature, and/or social science. Courses that also carry breadth designations of Biological Sciences, Natural Sciences, or Physical Sciences will not count towards this requirement.*

<b>Total Credits</b>		<b>16</b>
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1  
All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. An economics elective and an environmental studies elective are required.  
Note: See a CEE advisor for additional information.

### HONORS IN RESEARCH

Students in civil engineering that have completed at least two semesters on the Madison campus with a cumulative GPA of **at least** 3.5 may apply to participate in the Honors in Research program. Students may register for 1 to 3 credits per semester. A grade of P (Progress) will be assigned each semester until the student completes the honors in research program or drops out of the program, at which time a final grade is assigned (based on research progress and the written thesis, if completed). This becomes the grade for all credits taken in CIV ENGR 489 Honors in Research.

A senior thesis worth 3 credits of CIV ENGR 489 is required. The senior thesis is a written document reporting on a substantial piece of work that is prepared in the style of a graduate thesis. The thesis advisor determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the Department of Civil and Environmental Engineering office to complete the program.

The designation "Honors in Research" will be recorded on the student's transcript if the following criteria are met:

1. Satisfaction of requirements for an undergraduate degree in Civil Engineering.
2. A cumulative grade-point average of at least 3.3.
3. Completion of a total of at least 8 credits in CIV ENGR 489.
4. Completion of a senior honors thesis with a final grade of B or better.

Students interested in the Honors in Research program should contact their advisor or the BSCE chair for more information. Applications to the program are to be submitted to the BSCE chair with a supporting letter from the student's academic and thesis advisors. Decisions regarding acceptance are made by the BSCE chair.

### NAMED OPTIONS

**Note: Beginning Fall 2023, admission to the Environmental Engineering named option for the Civil Engineering, B.S. will be suspended. Students interested in Environmental Engineering and planning to graduate in 2023-24 or later may apply for the Environmental Engineering, B.S. (p. 277) program. Please consult your academic advisor.**

View as listView as grid

- CIVIL ENGINEERING: CONSTRUCTION ENGINEERING AND MANAGEMENT (P. 273)
- CIVIL ENGINEERING: ENVIRONMENTAL ENGINEERING (P. 275)

### UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

### LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and

welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies
8. an ability to explain basic concepts in management, business, and public policy
9. an ability to explain the importance of professional licensure
10. an ability to understand common failure mechanisms of a component, process, or system and their causes and prevention

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109		5 E M A 201	3
INTEREGR 170		3 CIV ENGR 159 or M E 231	2
		or LIBERAL STUDIES	LIBERAL STUDIES or
COMMUNICATIONS A	3	INTEREGR 170	3
		GEOSCI 100 or 106	3
	<b>16</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 319 or 320	3
E M A 202		3 E M A 303 or M E 306	3
CIV ENGR 320		3 E M A/M E 307	1
BIOLOGY ELECTIVE		3 E P D 275	2
STAT 324 or 311		3 CIV ENGR 310	3
		ECON 101, 102, or 111	4
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
CIV ENGR 311		3 CIV ENGR 340	3
CIV ENGR/G L E 330		3 CIV ENGR/E M A 395	3
CIV ENGR/G L E 291		4 CIV ENGR 498	3
ETHNIC STUDIES		3 CIV ENGR 370	3
INTEREGR 397		3 PHYSICS 202 or 208	5
	<b>16</b>		<b>17</b>

#### Fourth Year

Fall	Credits	Spring	Credits
CIV ENGR DESIGN ELECTIVE		3 CIV ENGR 578	4
ENGR ELECTIVE		3 CIV ENGR DESIGN ELECTIVE	3
CIV ENGR ELECTIVE		3 ENGR ELECTIVE	3
CIV ENGR 494		3 LIBERAL STUDIES	3
ENV STUDIES ELECTIVE		3 ENGR OUTSIDE OF CIV ENGR	3
ENGR ELECTIVE		1	
	<b>16</b>		<b>16</b>

**Total Credits 128**

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

William Likos (Chair)  
 Soyoung Ahn  
 Hussain Bahia  
 Awad Hanna  
 Gregory W. Harrington  
 James P. Hurley  
 Steve P. Loheide II  
 Katherine (Trina) McMahon  
 Daniel Noguera  
 David Noyce  
 Jae Park  
 Gustavo Parra-Montesinos  
 Bin Ran  
 Jeffrey Russell  
 James Jay Schauer  
 Chin H. Wu



## ASSOCIATE PROFESSORS

Paul Block  
Dante Fratta  
Matthew Ginder-Vogel  
Andrea Hicks  
Xiaopeng Li  
Jose Pincheira  
Pavana Prabhakar  
Christy Remucal  
Hiroki Sone  
James Tinjum  
Daniel Wright

## ASSISTANT PROFESSORS

Hannah Blum  
Sikai Chen  
Jesse Hampton  
Nimish Pujara  
Mohan Qin  
Bu Wang  
Haoran Wei  
Zhenhua Zhu

See also Civil and Environmental Engineering Faculty Directory (<https://directory.engr.wisc.edu/cee/faculty/>).

## CERTIFICATION/LICENSURE

Licensure as a Professional Engineer is expected of civil engineers. Information on steps needed to obtain licensure is available from the National Council for the Examination of Engineers and Surveyors (NCEES) at <https://ncees.org/engineering/>.

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Civil and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## CIVIL ENGINEERING: CONSTRUCTION ENGINEERING AND MANAGEMENT

The Department of Civil and Environmental Engineering offers an undergraduate option in construction engineering and management (CEM). Students taking the CEM option will earn an ABET-accredited B.S. degree in civil engineering. The transcript will indicate that the student has

earned a Bachelor of Science–Civil Engineering with option: Construction Engineering and Management.

Students must complete the following BS Civil Engineering requirements: Introduction to Engineering, Mathematics and Statistics, Basic Science, Mechanics, Tools, Breadth, Communications, and Liberal Studies. CEM requirements for Civil Engineering Design and Engineering Electives are listed here (p. 273), along with additional requirements for the CEM option. The total number of credits required for the CEM option is 132 instead of 128.

## REQUIREMENTS

### CIVIL ENGINEERING DESIGN REQUIREMENT FOR CEM OPTION

Code	Title	Credits
Choose one:		3
CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	
Must take:		
CIV ENGR 578	Senior Capstone Design <sup>1</sup>	4
Select one of the following:		3
CIV ENGR 392	Building Information Modeling (BIM) <sub>2</sub>	
CIV ENGR 414	Hydrologic Design	
CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	
CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 532	Foundations	
CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	
<b>Total Credits</b>		<b>10</b>

**1**

Must complete either CIV ENGR 445 Steel Structures I or CIV ENGR 447 Concrete Structures I before taking.

**2**

This course is only available as a design course for CEM option students.

### CONSTRUCTION ENGINEERING AND MANAGEMENT DEPTH REQUIREMENT

Code	Title	Credits
CIV ENGR 491	Legal Aspects of Engineering	3
CIV ENGR 492	Integrated Project Estimating and Scheduling	3
CIV ENGR 1	Cooperative Education Program <sup>1</sup>	1
<b>Total Credits</b>		<b>8</b>

1

Students must take two credits of CIV ENGR 1 Cooperative Education Program total. A summer internship equals 1 credit; a co-op equals 1 credit.

### ENGINEERING ELECTIVES REQUIREMENT FOR CEM OPTION

Code	Title	Credits
Select one of the following: 3		
CIV ENGR 496	Electrical Systems for Construction	
CIV ENGR 497	Mechanical Systems for Construction	
Select two of the following: 6		
ACCT I S 300	Accounting Principles	
FINANCE/ ECON 300	Introduction to Finance	
INTEREGR 303	Applied Leadership Competencies in Engineering	
M H R 300	Managing Organizations	
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process	
REAL EST 611	Residential Property Development	
<b>Total Credits</b>		<b>9</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
CHEM 109 <sup>1</sup>	5	CIV ENGR 159 (was M E 170 before Fall 2023)	2
INTEREGR 170	3	E M A 201	3
or LIBERAL STUDIES <sup>2</sup>	3	GEOSCI 100 or 106	3
COMMUNICATIONS A	3	LIBERAL STUDIES or <sup>2</sup> INTEREGR 170	3
	<b>16</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits	Summer	Credits
MATH 234	4	MATH 319 or 320	3	CIV ENGR 1	1
STAT 324 or 311	3	E M A 303 <sup>3</sup>	3		
E M A 202 <sup>3</sup>	3	E M A/ M E 307 <sup>3</sup>	1		
CIV ENGR 320	3	CIV ENGR 310	3		
ZOOLOGY 153, 260, or MICROBIO 101	3	E P D 275	2		

	ECON 101, 102, or 111 <sup>2</sup>	4	
	<b>16</b>	<b>16</b>	<b>1</b>

#### Third Year

Fall	Credits	Spring	Credits	Summer	Credits
CIV ENGR 370	3	CIV ENGR DESIGN <sup>4</sup>	3	CIV ENGR 1	1
CIV ENGR 340	3	CIV ENGR/ E M A 395	3		
CIV ENGR/ G L E 330	3	CIV ENGR/ G L E 291	4		
INTEREGR 397	3	CIV ENGR 498	3		
ETHNIC STUDIES <sup>2</sup>	3	PHYSICS 202	5		
	<b>15</b>		<b>18</b>		<b>1</b>

#### Fourth Year

Fall	Credits	Spring	Credits
CIV ENGR DESIGN <sup>4</sup>	3	CIV ENGR 578	4
CIV ENGR 311	3	CIV ENGR 492 <sup>5</sup>	3
CIV ENGR 491 <sup>5</sup>	3	BUSINESS ELECTIVE	3
CIV ENGR 494	3	ENVIRONMENT/ STUDIES ELECTIVE <sup>2</sup>	3
CONSTRUCTION SYSTEMS ELECTIVE	3	LIBERAL STUDIES <sup>2</sup>	3
BUSINESS ELECTIVE	3		
	<b>18</b>		<b>16</b>

#### Total Credits 132

1

Taking CHEM 103 General Chemistry I/CHEM 104 General Chemistry II instead of CHEM 109 Advanced General Chemistry adds 4 additional credits to degree requirements.

2

Liberal studies coursework should add up to 16 credits, including economics elective, environmental studies elective, and ethnic studies.

3

After completing E M A 201 Statics, students may take E M A 202 Dynamics and then E M A 303 Mechanics of Materials/E M A/M E 307 Mechanics of Materials Lab, or take E M A 303/E M A/M E 307 and then E M A 202.

4

One design course must be CIV ENGR 445 Steel Structures I or CIV ENGR 447 Concrete Structures I, which must be taken before CIV ENGR 578 Senior Capstone Design. CIV ENGR 445 is offered every Fall; CIV ENGR 447 is offered every Spring.

5

CIV ENGR 491 Legal Aspects of Engineering is offered every Fall; CIV ENGR 492 Integrated Project Estimating and Scheduling is offered every Spring.

# CIVIL ENGINEERING: ENVIRONMENTAL ENGINEERING

**Admissions to the Environmental Engineering named option will be suspended as of fall 2023 and the option will be discontinued as of fall 2027. If you have any questions, please contact the department.**

The Department of Civil and Environmental Engineering offers an undergraduate option in environmental engineering. Students taking the environmental engineering option will earn an ABET-accredited B.S. degree in civil engineering. The transcript will indicate that the student has earned a Bachelor of Science–Civil Engineering with option: Environmental Engineering.

Students must complete the following BS Civil Engineering requirements: Introduction to Engineering, Mathematics and Statistics, Basic Science, Mechanics, Tools, Breadth, Communications, and Liberal Studies. EV requirements for Civil Engineering Design and Engineering Electives are listed here (p. 275). Students must also meet the Environmental Engineering Breadth Requirement, also listed here (p. 275).

## REQUIREMENTS

**Note: Beginning Fall 2023, admission to the Environmental Engineering named option for the Civil Engineering, B.S. will be suspended. Students interested in Environmental Engineering and planning to graduate in 2023-24 or later may apply for the Environmental Engineering, B.S. (p. 277) program. Please consult your academic advisor.**

### CIVIL ENGINEERING DESIGN REQUIREMENT

Code	Title	Credits
CIV ENGR 578	Senior Capstone Design	4

Every student must take at least one course in the environmental or water resources discipline and another course in a different discipline, for a total of 6 credits. One of the two courses MUST be completed BEFORE taking CIV ENGR 578 Senior Capstone Design.

#### Water Resources

CIV ENGR 414	Hydrologic Design	6
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#### Environmental

CIV ENGR 426	Design of Wastewater Treatment Plants	
CIV ENGR 427	Solid and Hazardous Wastes Engineering	
CIV ENGR 428	Water Treatment Plant Design	
CIV ENGR 522	Hazardous Waste Management	

#### Structural

CIV ENGR 445	Steel Structures I	
CIV ENGR 447	Concrete Structures I	

#### Geological

CIV ENGR/ G L E 530	Seepage and Slopes	
CIV ENGR/ G L E 532	Foundations	

#### Transportation

CIV ENGR 573	Geometric Design of Transport Facilities	
CIV ENGR 574	Traffic Control	
CIV ENGR 576	Advanced Pavement Design	

Note: If a student takes three or more courses from the above list, two of those courses will count toward this civil engineering design requirement and the other courses will count toward the electives requirement (see section below).

**Total Credits 10**

### ENGINEERING ELECTIVES REQUIREMENT

- Students must take at least 3 credits of coursework from an ABET-accredited degree-granting program outside of the bachelor of science in civil engineering program. InterEGR and EPD courses do not qualify for meeting this requirement; any courses cross-listed with Civil Engineering (CEE) do not qualify for meeting this requirement.
- Select at least one of the following: CIV ENGR 322 Environmental Engineering Processes or CIV ENGR 410 Hydraulic Engineering.
- Students must take at least 7 credits of coursework that meets at least one of the following<sup>1, 2, 3, 4</sup>:
  - Any course offered by an engineering department, including but not limited to CEE.
  - Any intermediate- or advanced-level course with a breadth designation of Biological Sciences, Physical Sciences, and/or Natural Sciences. These courses cannot also carry a breadth designation of Social Sciences, Humanities, or Literature.
  - Any of the following business courses: INTEREGR 303 Applied Leadership Competencies in Engineering, ACCT I S 300 Accounting Principles, FINANCE/ECON 300 Introduction to Finance, GEN BUS 301 Business Law, M H R 300 Managing Organizations, REAL EST/A A E/ECON/URB R PL 306 The Real Estate Process.

#### Total Credits: 13

1

Up to 3 credits of CIV ENGR 1 Cooperative Education Program may be used toward Item 3.

2

Up to 6 credits of research work (CIV ENGR 299 Independent Study, CIV ENGR 489 Honors in Research, and/or CIV ENGR 699 Independent Study) may be used toward Item 3.

3

Depending on their choice of courses, students may need to take some of these 7 credits to satisfy the breadth requirement below.

4

CIV ENGR 150 Introduction to Architectural Theory, CIV ENGR 151 Architectural Making I, CIV ENGR 152 Architectural Making II, CIV ENGR 155 Architectural Thinking and CIV ENGR 250 Architectural Visualization cannot be used in Item 3.

### ENVIRONMENTAL ENGINEERING BREADTH REQUIREMENT

Courses selected to meet the design and electives requirement above must also be selected in a manner that meets this requirement. At least

one CEE course must be selected from at least three of the specialty groups in the table below.

Code	Title	Credits
<i>Water Resources</i>		
CIV ENGR 410	Hydraulic Engineering	3
CIV ENGR 412	Groundwater Hydraulics	3
CIV ENGR 414	Hydrologic Design	3
CIV ENGR 415	Hydrology	3
CIV ENGR 416	Water Resources Systems Analysis	3
CIV ENGR 619	Special Topics in Hydrology	1-3
<i>Environmental Fluid Mechanics</i>		
CIV ENGR 411	Open Channel Hydraulics	3
CIV ENGR 514	Coastal Engineering	2-3
CIV ENGR 618	Special Topics in Hydraulics and Fluid Mechanics	1-3
<i>Environmental Chemistry &amp; Biotechnology</i>		
CIV ENGR 425	Environmental Engineering Microbiology	3
CIV ENGR 500	Water Chemistry	3
CIV ENGR 501	Water Analysis-Intermediate	3
CIV ENGR/ SOIL SCI 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
<i>Water &amp; Wastewater Treatment</i>		
CIV ENGR 322	Environmental Engineering Processes	3
CIV ENGR/BSE/ SOIL SCI 372	On-Site Waste Water Treatment and Dispersal	2
CIV ENGR 426	Design of Wastewater Treatment Plants	3
CIV ENGR 428	Water Treatment Plant Design	3
<i>Geoenvironmental &amp; Hazardous Wastes</i>		
CIV ENGR/G L E 421	Environmental Sustainability Engineering	3
CIV ENGR 427	Solid and Hazardous Wastes Engineering	3
CIV ENGR 522	Hazardous Waste Management	3
CIV ENGR/ G L E 635	Remediation Geotechnics	3
<i>Occupational &amp; Public Health</i>		
CIV ENGR 422	Elements of Public Health Engineering	3
<i>Air Pollution Control</i>		
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 609	Special Topics in Water Chemistry (Topic: Aerosol and Air Pollution Lab)	1-3

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109 <sup>1</sup>		5 CIV ENGR 159 (was M E 170 before Fall 2023)	2
INTEREGR 170		3 E M A 201	3
COMMUNICATIONS A		3 GEOSCI 100 or 106	3
		ENVIRONMENTAL STUDIES ELECTIVE <sup>2</sup>	3
	<b>16</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 319 or 320	3
STAT 324 or 311		3 E M A 303 <sup>3</sup>	3
E M A 202 <sup>3</sup>		3 E M A/M E 307 <sup>3</sup>	1
CIV ENGR 320		3 CIV ENGR 310	3
ZOOLOGY 153, 260, or MICROBIO 101		3 E P D 275	2
		ECON 101, 102, or 111 <sup>2</sup>	4
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
CIV ENGR 311		3 CIV ENGR DESIGN	3
CIV ENGR/G L E 330		3 CIV ENGR/E M A 395	3
CIV ENGR/G L E 291		4 CIV ENGR 340	3
INTEREGR 397		3 CIV ENGR 322 or 410 <sup>5</sup>	3
ETHNIC STUDIES <sup>2</sup>		3 PHYSICS 202	5
	<b>16</b>		<b>17</b>

#### Fourth Year

Fall	Credits	Spring	Credits
CIV ENGR 498		3 CIV ENGR 578 <sup>4</sup>	4
CIV ENGR 494		3 ENGR OUTSIDE CIV ENGR ELECTIVE	3
CIV ENGR 370		3 APPLIED ENGR ELECTIVE	3
CIV ENGR DESIGN		3 APPLIED ENGR ELECTIVE	3
APPLIED ENGR ELECTIVE		1 LIBERAL STUDIES <sup>2</sup>	3
LIBERAL STUDIES <sup>2</sup>		3	
	<b>16</b>		<b>16</b>

#### Total Credits 128

1

Taking CHEM 103 General Chemistry I/CHEM 104 General Chemistry II instead of CHEM 109 Advanced General Chemistry adds 4 additional credits to degree requirements.

2

Liberal studies coursework should add up to 16 credits, including economics elective, environmental studies elective, and ethnic studies.

3

After completing E M A 201 Statics, students may take E M A 202 Dynamics and then E M A 303 Mechanics of Materials/E M A/M E 307 Mechanics of Materials Lab, or take E M A 303/E M A/M E 307 and then E M A 202.

4

At least one Civil Engineering Design course must be taken before CIV ENGR 578 Senior Capstone Design.

5

CIV ENGR 322 Environmental Engineering Processes is offered every Fall semester; CIV ENGR 410 Hydraulic Engineering is offered every Spring semester.

## ENVIRONMENTAL ENGINEERING, B.S.

The Department of Civil and Environmental Engineering offers a B.S. Environmental Engineering (BSEnvE) degree program, an excellent degree choice for students who are interested in the sustainable design, construction, and operation of systems and facilities that:

- Treat and distribute safe and reliable drinking water
- Recover material, nutrient, and energy resources from wastewater and solid waste
- Protect and restore wetlands, streams, lakes, and groundwater
- Allocate water resources for urban, rural, and recreational use
- Protect and develop coastal shorelines and stream banks
- Manage stormwater and minimize risk of flood events
- Reduce, reuse, and recycle solid wastes
- Minimize the production of and provide treatment of industrial and agricultural wastes
- Minimize the production of and provide treatment of industrial air emissions
- Protect society from the impacts of climate change, such as rising sea levels and increasing frequency and severity of severe weather events
- Slow down or reverse climate change via
  - Alternative sources of energy such as solar, wind, geothermal and biofuels
  - Recovery of carbon and other greenhouse gases from industrial air emissions

The operation of these facilities is being rapidly integrated into the Internet of Things with real-time “big data” collection systems for automated control. This makes it possible for society to rely on smart infrastructure, including systems that will reduce water consumption, save energy, and improve community resiliency in the wake of natural and human-caused disasters.

All of the above items require a core knowledge in mathematics, statistics, physics, chemistry, biology, geology, computer science and computer design tools, as well as breadth in different environmental engineering disciplines. Environmental engineers perform their work in a multidisciplinary setting requiring strong written and verbal communication skills, understanding of professional and ethical obligations coupled with risk management and decision-making, and commitment to lifelong learning and professional licensure. Their daily work also requires a commitment to sustainability – the need to meet today’s needs while

also allowing future generations to meet their environmental health, public health, and society’s economic health needs.

To meet accreditation policies, eligibility for the program is limited to those students who

- matriculated into UW-Madison’s College of Engineering in the Fall 2020 semester or later, and
- expect to graduate no sooner than December 2023.

Students not meeting the above criteria are encouraged to consider the Environmental Engineering Option of the BS Civil Engineering degree program. Additional options for these students include the BS Geological Engineering degree program and the Natural Resources and Environmental Engineering Option of the BS Biological Systems Engineering degree program.

### VISION

Develop and maintain a learning community that pursues new knowledge and understanding, and provides innovative and sustainable solutions to human and ecological needs.

### MISSION OF BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING (BSEnvE) PROGRAM

Create, integrate, and transfer environmental engineering knowledge and practice in the development of professionals, leaders, and citizens that help define and serve societal and environmental needs by applying this knowledge and practice in an effective and sustainable manner.

### ENVIRONMENTAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Prepare BSEnvE graduates to contribute to their communities through the following career and professional accomplishments:

1. Design and construct both natural and built processes and systems to efficiently meet determined needs using technical knowledge; modern tools; design principles; ethical practice; and communication, leadership, and team skills.
2. Utilize measurement and analysis tools along with experimental data in investigating natural and built systems.
3. Understand and incorporate economic, environmental, political, social, safety and global considerations in design, investigation and construction of natural and built systems.
4. Engage in lifelong learning to keep pace with the continuous evolution of policies, procedures, technologies and tools for engineering analysis, design, and decision making.
5. Serve others through participation in professional and/or civic activities and responsibilities.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW-Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to

meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

## CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students who were admitted to the environmental engineering degree program (classification changed to BSEnvE) in Fall 2021 or later.

Code	Title	Credits
	Introduction to Engineering	3
	Mathematics and Statistics	19
	Basic Science	16
	Engineering Mechanics	9
	Engineering Tools	6
	Fundamental Principles	18
	Advanced Principles and Practices	33
	Communications	8
	Liberal Studies	16
	<b>Total Credits</b>	<b>128</b>

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
INTEREGR 170	Design Practicum	3
	<b>Total Credits</b>	<b>3</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3

One of the following:		3
STAT 324	Introductory Applied Statistics for Engineers	
STAT 311 & STAT 312	Introduction to Theory and Methods of Mathematical Statistics I and Introduction to Theory and Methods of Mathematical Statistics II	
<b>Total Credits</b>		<b>19</b>

## BASIC SCIENCE

Code	Title	Credits
One of the following:		5
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
One of the following:		5
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
One of the following:		3
GEOSCI 100	Introductory Geology: How the Earth Works	
GEOSCI/ ENVIR ST 106	Environmental Geology	
One of the following:		3
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY 153	Introductory Biology	
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology	
MICROBIO 101	General Microbiology	
<b>Total Credits</b>		<b>16</b>

## ENGINEERING MECHANICS

Code	Title	Credits
E M A 201	Statics (with a grade of C or better)	3
E M A 202	Dynamics	3
CIV ENGR 310	Fluid Mechanics	3
<b>Total Credits</b>		<b>9</b>

## ENGINEERING TOOLS

Code	Title	Credits
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	4
CIV ENGR 159	Civil Engineering Graphics (was ME 170 before Fall 2023)	2
<b>Total Credits</b>		<b>6</b>

## FUNDAMENTAL ENVIRONMENTAL ENGINEERING PRINCIPLES

Code	Title	Credits
CIV ENGR 311	Hydrosience	3
CIV ENGR 320	Environmental Engineering	3

CIV ENGR 324	Environmental Engineering Thermodynamics	3
CIV ENGR 325	Environmental Engineering Materials	3
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3
CIV ENGR 498	Construction Project Management	3
<b>Total Credits</b>		<b>18</b>

## ADVANCED PRINCIPLES AND PRACTICES

### Environmental Engineering Experiments

Note: Courses taken to meet this requirement may not be used to meet the environmental engineering breadth requirement.

Code	Title	Credits
One of the following lab courses:		3
CIV ENGR 322	Environmental Engineering Processes	
CIV ENGR 410	Hydraulic Engineering	
BSE 365	Measurements and Instrumentation for Biological Systems	
GEOSCI/ G L E 627	Hydrogeology	
<b>Total Credits</b>		<b>3</b>

### Senior Capstone Design

Code	Title	Credits
CIV ENGR 578	Senior Capstone Design <sup>1</sup>	4
<b>Total Credits</b>		<b>4</b>

1

At least one engineering design course as designated with an asterisk(\*) must be completed before taking CIV ENGR 578 Senior Capstone Design.

### Environmental Engineering Breadth Electives

Code	Title	Credits
<b>At least one class in at least four of the following sub-disciplines. At least two of the courses must be designated as an engineering design course (*) and must be from different sub-disciplines. If more than one course is taken from a sub-discipline, then the additional course(s) will be counted towards the Technical and Professional Electives Requirement.</b>		<b>12</b>

#### Environmental Chemistry

CIV ENGR 500	Water Chemistry
ATM OCN 638	Atmospheric Chemistry
SOIL SCI 621	Soil Chemistry

#### Health Hazards and Risk Assessment

CIV ENGR 422	Elements of Public Health Engineering
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health

#### Hydraulics

CIV ENGR 410	Hydraulic Engineering
CIV ENGR 411	Open Channel Hydraulics

*Surface Water Resources and Hydrology*

BSE 473	Water Management Systems
BSE 571	Small Watershed Engineering
CIV ENGR 414	Hydrologic Design *
CIV ENGR 415	Hydrology

*Groundwater, Soils, and Sediments*

CIV ENGR 412	Groundwater Hydraulics
GEOSCI/ G L E 627	Hydrogeology

*Water and Wastewater*

CIV ENGR 426	Design of Wastewater Treatment Plants *
CIV ENGR 428	Water Treatment Plant Design *

*Air Quality and Control*

CIV ENGR 423	Air Pollution Effects, Measurement and Control
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution

*Solid and Hazardous Waste*

CIV ENGR 427	Solid and Hazardous Wastes Engineering *
CIV ENGR 522	Hazardous Waste Management *

*Energy and Environment*

BSE/ ENVIR ST 367	Renewable Energy Systems
CBE 512	Energy Technologies and Sustainability
CIV ENGR/ G L E 421	Environmental Sustainability Engineering
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design *
GEOSCI/ ENVIR ST 411	Energy Resources

**Total Credits** **12**

**Professional Electives**

*Note: Courses taken to meet this requirement may not be used to meet the environmental engineering breadth requirement.*

Select 14 credits of coursework that meets at least one of the following criteria:

- Any engineering course numbered 300 or higher, excluding E P D and INTEREGR. Up to six credits of independent study (e.g. CIV ENGR 699 Independent Study and others) may be counted
- Any intermediate or advanced-level course<sup>1</sup> from atmospheric and oceanic sciences, botany, chemistry, geography, geoscience, mathematics<sup>2</sup>, microbiology, molecular and environmental toxicology, physics, population health sciences, soil science, statistics<sup>2</sup>, or zoology
- Up to three credits of any intermediate or advanced-level course from agricultural and applied economics, economics, general business, management and human resources, or INTEREGR 303 Applied Leadership Competencies in Engineering
- Up to three credits of CIV ENGR 1 Cooperative Education Program

**1**

Courses with social science, humanities, or literature breadth (H, L, S, W, X, Y, Z) cannot be used

**2**

Transfer/test math elective credits for calculus or STAT 301 Introduction to Statistical Methods may not be used to fulfill Professional Electives

**COMMUNICATIONS**

Code	Title	Credits
<i>Communications A (choose one)</i>		<b>3</b>
ENGL 100	Introduction to College Composition	
LSC 100	Science and Storytelling	
COM ARTS 100	Introduction to Speech Composition	
ESL 118	Academic Writing II	
<i>Speech-Related Course (choose one)</i>		<b>2</b>
E P D 275	Technical Presentations <sup>1</sup>	
COM ARTS 105	Public Speaking	
COM ARTS 181	Elements of Speech-Honors Course	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
<i>Writing-Related Course (choose one)</i>		<b>3</b>
INTEREGR 397	Engineering Communication <sup>1</sup>	
ENGL 201	Intermediate Composition	

**Total Credits** **8**

**1**

E P D 275 Technical Presentations and INTEREGR 397 Engineering Communication are strongly recommended to satisfy these requirements.

**LIBERAL STUDIES**

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		<b>16</b>

Complete Requirements (p. 244)<sup>1</sup>

**Requirements specific to Environmental Engineering:**

*An economics course must be selected from the following list:*

ECON 101	Principles of Microeconomics
ECON 102	Principles of Macroeconomics
ECON 111	Principles of Economics-Accelerated Treatment

A minimum of three credits of environmental studies course that meets the breadth designations of Humanities, Literature, and/or Social Studies. Courses that also carry breadth designations of Biological Sciences, Natural Sciences, or Physical Sciences will not count towards this requirement.

**Total Credits** **16**



1

All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. An economics elective and an environmental studies elective are required.

Note: See an environmental engineering advisor for additional information.

### HONORS IN RESEARCH

Students in environmental engineering that have completed at least two semesters on the Madison campus with a cumulative GPA of **at least 3.5** may apply to participate in the Honors in Research program. Students may register for 1 to 3 credits per semester. A grade of P (Progress) will be assigned each semester until the student completes the honors in research program or drops out of the program, at which time a final grade is assigned (based on research progress and the written thesis, if completed). This becomes the grade for all credits taken in CIV ENGR 489 Honors in Research.

A senior thesis worth 3 credits of CIV ENGR 489 is required. The senior thesis is a written document reporting on a substantial piece of work that is prepared in the style of a graduate thesis. The thesis advisor determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the Department of Civil and Environmental Engineering office to complete the program.

The designation "Honors in Research" will be recorded on the student's transcript if the following criteria are met:

1. Satisfaction of requirements for an undergraduate degree in Environmental Engineering.
2. A cumulative grade-point average of at least 3.3.
3. Completion of a total of at least 8 credits in CIV ENGR 489.
4. Completion of a senior honors thesis with a final grade of B or better.

Students interested in the Honors in Research program should contact their advisor or the BSEnvE chair for more information. Applications to the program are to be submitted to the BSEnvE chair with a supporting letter from the student's academic and thesis advisors. Decisions regarding acceptance are made by the BSEnvE chair.

### UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

### LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

### FOUR-YEAR PLAN

First Year			
Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109		5 E M A 201 <sup>1</sup>	3
GEOSCI 100 or 106		3 INTEREGR 170	3
Communications A		3 CIV ENGR 159	2
		Environmental Studies	3
			<b>15</b>
		<b>16</b>	<b>15</b>

Second Year			
Fall	Credits	Spring	Credits
MATH 234		4 MATH 319	3
STAT 324		3 E M A 202	3
CIV ENGR 320		3 CIV ENGR 325	3
Biology		3 CIV ENGR/G L E 291	4
Ethnic Studies		3 E P D 275	2
			<b>15</b>
		<b>16</b>	<b>15</b>

Third Year			
Fall	Credits	Spring	Credits
CIV ENGR 310		3 CIV ENGR 311	3
CIV ENGR 324		3 CIV ENGR 498	3
PHYSICS 202 or 208		5 ECON 101	4
INTEREGR 397		3 Lab Course	3
Liberal Studies		3 Env Engr Breadth #1	3
			<b>16</b>
		<b>17</b>	<b>16</b>

**Fourth Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CIV ENGR 494	3	CIV ENGR 578	4
Env Engr Breadth #2	3	Env Engr Breadth #4	3
Env Engr Breadth #3	3	Professional Elective	3
Professional Elective	3	Professional Elective	3
Professional Elective	2	Professional Elective	3
Liberal Studies	3		
	<b>17</b>		<b>16</b>

**Total Credits 128**

1

E M A 201 Statics requires a minimum grade of C.

Paul Block  
 Michael Cardiff  
 Dante Fratta  
 Matthew Ginder-Vogel  
 Andrea Hicks  
 Rebecca Larson  
 Christy Remucal  
 Paul Stoy  
 James Tinjum  
 Daniel Wright

**ASSISTANT PROFESSORS**

Nimish Pujara  
 Mohan Qin  
 Haoran Wei  
 Christopher Zahasky

**ADVISING AND CAREERS****ADVISING**

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

**ENGINEERING CAREER SERVICES**

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

**CERTIFICATION/LICENSURE**

Licensure as a Professional Engineer is expected of environmental engineers. Information on steps needed to obtain licensure is available from the National Council for the Examination of Engineers and Surveyors (NCEES) at <https://ncees.org/engineering/>.

**ACCREDITATION****ACCREDITATION**

This new program will seek accreditation from the Engineering Accreditation Commission of ABET, <http://www.abet.org> (<http://www.abet.org/>). Application for accreditation will be made at the earliest opportunity, in 2024, with an ABET decision in 2025. If accreditation is awarded, it may be retroactively applied to those who graduated in Academic Year 2023-24.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

**PEOPLE****PROFESSORS**

Greg Harrington (Director)  
 Robert Anex  
 Tracey Holloway  
 James Hurley  
 Krishnapuram Karthikeyan  
 William Likos  
 Steven Loheide  
 Katherine McMahan  
 Daniel Noguera  
 Jim Park  
 Doug Reinemann  
 Troy Runge  
 James Schauer  
 Anita Thompson  
 Chin Wu

**ASSOCIATE PROFESSORS****GEOLOGICAL ENGINEERING,  
B.S.**

Geological engineering integrates two disciplines—geology and engineering. Geologists study the Earth—its origins, its composition, and its evolution. Engineers apply scientific principles to practical ends, such as the sustainable design and construction of facilities and infrastructure, the environmentally responsible extraction of resources, and the use of geo-systems for the generation of alternative energy. Geological engineering is interdisciplinary, with faculty from the College of Engineering and the College of Letters & Science.

Geological engineers find responsible ways to use the Earth's resources to address engineering challenges while protecting the environment. They solve a variety of practical problems associated with rock and soils using principles of sustainable engineering. They design and construct underground and foundation systems, transportation facilities, dams, tunnels, and power plants. They mitigate natural hazards such as floods, landslides, and earthquakes, and develop safe and environmentally sound sources of energy and minerals. Geological engineers also manage

groundwater and surface water resources to ensure the public has access to safe drinking water. They also design and construct subsurface repositories for waste disposal and remediate contaminated sites.

Students pursuing the B.S. degree in geological engineering are encouraged to obtain the dual major in Geological Engineering and Geology with no required extra course work. The geological engineering curriculum allows students to obtain the dual major in a single 126-credit program. The B.S. degree in geological engineering is accredited by the Accreditation Board of Engineering and Technology (ABET), which is required to obtain a professional engineering license.

## GEOLOGICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Graduates will be prepared to assume positions as geological engineers upon graduation. After proper training and exposure to a comprehensive education in our program, our graduates will be able to:

1. apply geological engineering principles, analyses, and synthesis to design and implement projects in the natural and built environment;
2. incorporate economic, environmental, political, ethical, social, safety, and global considerations to generate sustainable solutions in the natural and built environment;
3. exhibit strong communication, leadership, and teamwork skills;
4. serve others through professional responsibility and participation in professional and public activities and good citizenship; and
5. demonstrate a continuing commitment to and interest in their own and others' education.

## HOW TO GET IN

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UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

Students must complete the College of Engineering Liberal Studies Requirements (<http://guide.wisc.edu/undergraduate/engineering/#requirementstext>).

Students are encouraged to download a GLE Undergraduate Handbook from the Current Students/Undergraduate page on the program website (<http://www.engr.wisc.edu/geological-engineering/>). The handbook has detailed curriculum information as well as other practical information for undergraduate students to supplement the information provided here.

Students completing the geological engineering degree are also eligible to earn an additional major in geology and geophysics with no additional coursework. Students must contact an advisor to complete the necessary paperwork to declare the additional geology and geophysics major.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics	13
	Engineering Principles and Professional Issues	11-14
	Physical Science, Engineering Science, and Geoscience	44
	Required Geological Engineering Courses	19
	Technical Electives	15
	Geological Engineering Design	
	Communication Skills	8-9
	Liberal Studies Electives	16
	Fundamentals of Engineering Exam	
<b>Total Credits</b>		<b>126-130</b>

## MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
<b>Total Credits</b>		<b>13</b>

## ENGINEERING PRINCIPLES AND PROFESSIONAL ISSUES

Code	Title	Credits
STAT 324	Introductory Applied Statistics for Engineers	3
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
or I SY E 210	Introduction to Industrial Statistics	
CIV ENGR/G L E 291	Problem Solving Using Computer Tools	4
I SY E 313	Engineering Economic Analysis	3
Select one:		1-4
E P D 690	Special Topics in Engineering Professional Development (Topic: Core Competence in Sustainability)	
ENVR ST/ GEOG 339	Environmental Conservation	
ENVR ST/ PHILOS 441	Environmental Ethics	
G L E 401	Special Topics in Geological Engineering (Topic: Ethics & Professionalism - GLE)	
INTEREGR 303	Applied Leadership Competencies in Engineering	

**Total Credits** **11-14**

## PHYSICAL SCIENCE, ENGINEERING SCIENCE AND GEOSCIENCE

Code	Title	Credits
Select one of the following:		5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
CIV ENGR 310	Fluid Mechanics	3
GEOSCI 100	Introductory Geology: How the Earth Works	3
or GEOSCI/ ENVR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4

**Total Credits** **44-48**

## REQUIRED GEOLOGICAL ENGINEERING COURSES

Code	Title	Credits
G L E 171	Introduction to Geological Engineering	1
G L E/ CIV ENGR 330	Soil Mechanics	3
G L E/CIV ENGR/ GEOSCI/ M S & E 474	Rock Mechanics	3
G L E 479	Geological Engineering Design	4
G L E/GEOSCI 594	Introduction to Applied Geophysics	3
G L E/GEOSCI 595	Field Methods in Applied and Engineering Geophysics	1
G L E/GEOSCI 627	Hydrogeology	4
<b>Total Credits</b>		<b>19</b>

## TECHNICAL ELECTIVES (15 CREDITS)

Students must take at least 15 credits in the Technical Electives category, of which 5–6 credits must be design-focused (noted as 'D' in the tracks below), including at least one design-focused course taken prior to G L E 479 Geological Engineering Design. If students take G L E/CIV ENGR 430 Introduction to Slope Stability and Earth Retention, G L E/CIV ENGR 432 Introduction to Shallow and Deep Foundation Systems and G L E/CIV ENGR 434 Introduction to Underground Openings Engineering, these combine to count as one design course. Additionally, if students take G L E/CIV ENGR 530 Seepage and Slopes, they can use G L E/CIV ENGR 432 and G L E/CIV ENGR 434 to count as one design credit; or, if students take G L E/CIV ENGR 532 Foundations, they can use G L E/CIV ENGR 430 and G L E/CIV ENGR 434 to count as one design credit. Students may take up to 6 credits of directed research credits as technical electives.

The technical electives are organized into five tracks, described below. Students may select courses within these tracks to focus coursework in a particular area. However, students may complete the technical electives requirement using courses listed in multiple tracks. Suggested technical electives and associated design-focused credits (noted as 'D' in the tracks below) for each track are included below. One credit of G L E 1 Cooperative Education Program can be used as a technical elective.

### Energy, Minerals & Mining

Geological engineers possess knowledge and a skill set that serve society's need to manage extraction of traditional energy and mineral resources in more sustainable and efficient ways, develop renewable energy systems such as solar and wind energy sites, and to lead in new technologies to limit carbon emissions through geological sequestration or to develop geothermal exchange fields and reservoirs.

Within this track, the 16 credits of liberal studies can be framed to match those of the Energy Institute certificate in Energy Sustainability (<http://guide.wisc.edu/undergraduate/engineering/engineering-physics/engineering-energy-sustainability-certificate/>).

Code	Title	Credits
BSE/ENVIR ST 367	Renewable Energy Systems	3
CBE 562	Special Topics in Chemical Engineering (Topic: Energy & Sustainability)	1-3

CIV ENGR/ ENVIR ST/ GEOG 377	An Introduction to Geographic Information Systems	4
E M A 405	Practicum in Finite Elements	3
GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI 457	Conducted Field Trip	2
GEOSCI 459	Field Geology	6
GEOSCI 515	Principles of Economic Geology	4
G L E 401	Special Topics in Geological Engineering (D) <sup>1</sup>	1-3
G L E/ CIV ENGR 430	Introduction to Slope Stability and Earth Retention (D)	1
G L E/ CIV ENGR 434	Introduction to Underground Openings Engineering (D)	1
G L E/ CIV ENGR 530	Seepage and Slopes (D)	3
G L E/ CIV ENGR 535	Wind Energy Balance-of-Plant Design (D)	3
G L E/GEOSCI 757	Advanced Rock Mechanics	3
G L E 801	Special Topics in Geological Engineering (Topic: Geomechanics)	1-3

1

Only certain G L E 401 topics count as design courses.

### Sustainability & Environment

Methods for quantifying the long-term effects of development, natural resource extraction, and environmental damage are often neglected or misapplied in cost-benefit life cycle analysis. This track intends to produce professionals capable of leading the field in sustainable design and construction. The Sustainability & Environment track focuses on quantification, design, and optimization in relation to the use of natural resources and construction materials/methods as well as minimizing the long-term impacts of these activities.

Code	Title	Credits
BSE/ENVIR ST 367	Renewable Energy Systems	3
CBE 562	Special Topics in Chemical Engineering (Topic: Energy & Sustainability)	1-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/G L E 421	Environmental Sustainability Engineering	3
CIV ENGR 427	Solid and Hazardous Wastes Engineering (D)	3
CIV ENGR 522	Hazardous Waste Management	3
CIV ENGR 619	Special Topics in Hydrology	1-3
CIV ENGR 649	Special Topics in Structural Engineering (Topic: Sustainable Construction)	1-3
GEOSCI/ ENVIR ST 411	Energy Resources	3
GEOSCI/G L E 629	Contaminant Hydrogeology (D)	3
G L E 401	Special Topics in Geological Engineering (D) <sup>1</sup>	1-3
G L E/ CIV ENGR 635	Remediation Geotechnics (D)	3

G L E/ CIV ENGR 732	Unsaturated Soil Geoengineering	3
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**1**

Only certain G L E 401 Special Topics in Geological Engineering topics count as design courses.

**Geohazards**

The number of fatalities and amount of economic loss due to geohazards increase every year. These losses may result from various geohazards, such as volcanic eruptions, earthquakes, landslides, flooding and tsunamis. The Geohazards track aims to provide students with the necessary skills to perform analyses that minimize loss of life and economic costs associated with geohazards.

Code	Title	Credits
CIV ENGR/ ENVIR ST/ GEOG 377	An Introduction to Geographic Information Systems	4
CIV ENGR 514	Coastal Engineering (D)	2-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 326	Landforms-Topics and Regions	3
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 459	Field Geology	6
G L E/ CIV ENGR 430	Introduction to Slope Stability and Earth Retention (D)	1
G L E/CIV ENGR/ ENVIR ST/ GEOSCI 444	Practical Applications of GPS Surveying	2
G L E/ CIV ENGR 530	Seepage and Slopes (D)	3
G L E/ CIV ENGR 735	Soil Dynamics (D)	3

**Water**

Water is an essential resource for humans and ecosystems. Water is also linked to mineral and energy resource production, waste management, and land reclamation. Population growth and climate change are creating increasing challenges to this resource. Development and sustainable management of groundwater and surface water, including prevention and mitigation of water quality problems, require combined expertise in geoscience, hydrology, and water resources engineering offered through the Water track.

Code	Title	Credits
CIV ENGR 311	Hydroscience	3
CIV ENGR 412	Groundwater Hydraulics	3
CIV ENGR 414	Hydrologic Design (D)	3
CIV ENGR 415	Hydrology	3
CIV ENGR 500	Water Chemistry	3
CIV ENGR 618	Special Topics in Hydraulics and Fluid Mechanics (D) <sup>1</sup>	1-3
CIV ENGR 619	Special Topics in Hydrology	1-3
GEOSCI/GEOG 320	Geomorphology	3

G L E/ CIV ENGR 430	Introduction to Slope Stability and Earth Retention (D)	1
G L E/CIV ENGR 511	Mixing and Transport in the Environment	3
G L E/ CIV ENGR 530	Seepage and Slopes (D)	3
G L E/ CIV ENGR 732	Unsaturated Soil Geoengineering	3

**1**

Must take one of these topics: "Waterfront & Coastal Planning" or "Lake & River Rehabilitation."

**Infrastructure**

There are many challenges that need to be overcome to address the aging infrastructure of this country as well as to develop cost effective solutions for new infrastructure in developing nations. The Infrastructure track is developed to provide students a background that enables them to perform engineering calculations to design, construct, assess the current condition (level of safety), and develop repair and retrofit solutions for civil engineering structures resting on, or constructed in, soil or rock.

Code	Title	Credits
CIV ENGR 649	Special Topics in Structural Engineering (Topic: Sustainable Construction)	1-3
E M A 405	Practicum in Finite Elements	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
GEOSCI 430	Sedimentology and Stratigraphy	3
G L E 401	Special Topics in Geological Engineering (D) <sup>1</sup>	1-3
G L E/ CIV ENGR 430	Introduction to Slope Stability and Earth Retention (D)	1
G L E/ CIV ENGR 432	Introduction to Shallow and Deep Foundation Systems (D)	1
G L E/ CIV ENGR 434	Introduction to Underground Openings Engineering (D)	1
G L E/CIV ENGR/ ENVIR ST/ GEOSCI 444	Practical Applications of GPS Surveying	2
G L E/ CIV ENGR 530	Seepage and Slopes (D)	3
G L E/ CIV ENGR 532	Foundations (D)	3
G L E/ CIV ENGR 535	Wind Energy Balance-of-Plant Design (D)	3
G L E/ CIV ENGR 730	Engineering Properties of Soils	3
G L E/ CIV ENGR 735	Soil Dynamics (D)	3

**1**

Only certain G L E 401 topics count as design courses.

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100 or COM ARTS 100 or LSC 100 or ESL 118	Introduction to College Composition Introduction to Speech Composition Science and Storytelling Academic Writing II	3
E P D 275 or COM ARTS 105 or COM ARTS 181 or COM ARTS 262 or COM ARTS 266	Technical Presentations Public Speaking Elements of Speech-Honors Course Theory and Practice of Argumentation and Debate Theory and Practice of Group Discussion	2-3
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8-9</b>

## LIBERAL STUDIES (16 CREDITS)

Students must complete the **16 credits** of College of Engineering Liberal Studies Requirements (<http://guide.wisc.edu/undergraduate/engineering/#requirements>).

## FUNDAMENTALS OF ENGINEERING EXAM

All students must take the Fundamentals of Engineering exam.

## HONORS IN RESEARCH

Students in geological engineering that have completed at least two semesters on the Madison campus with a cumulative GPA of **at least 3.5** may apply to participate in the Honors in Research program. Students may register for 1 to 3 credits per semester. A grade of P (Progress) will be assigned each semester until the student completes the honors in research program or drops out of the program, at which time a final grade is assigned (based on research progress and the written thesis, if completed). This becomes the grade for all credits taken in G L E 489 Honors in Research.

A senior thesis worth 3 credits of G L E 489 Honors in Research is required. The senior thesis is a written document reporting on a substantial piece of work that is prepared in the style of a graduate thesis. The thesis advisor determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the geological engineering office to complete the program.

The designation "Honors in Research" will be recorded on the student's transcript if the following criteria are met:

1. Satisfaction of requirements for an undergraduate degree in Geological Engineering.
2. A cumulative grade-point average of at least 3.3.
3. Completion of a total of at least 8 credits in G L E 489 Honors in Research.
4. Completion of a senior honors thesis with a final grade of B or better.

Students interested in the Honors in Research program should contact their advisor or the G L E chair for more information. Applications to the program are to be submitted to the G L E chair with a supporting letter from the student's academic and thesis advisors. Decisions regarding acceptance are made by the G L E chair.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

First Year		Credits	Credits
Fall	Spring		
MATH 221	5 MATH 222		4
CHEM 109	5 E M A 201		3
GEOSCI 100 or 106	3 GEOSCI 204		4
Communication A	3 G L E 171		1
	Liberal Studies Elective		4
		<b>16</b>	<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
MATH 234		4 CIV ENGR 310	3
E M A 202		3 E M A 303	3
GEOSCI/G L E 360		3 PHYSICS 202 or 208	5
GEOSCI 202		4 GEOSCI/G L E 370	3
CIV ENGR/G L E 291		4 Liberal Studies Elective	3
	<b>18</b>		<b>17</b>

**Third Year**

Fall	Credits	Spring	Credits
STAT 324 or 311		3 Technical Elective	3
Technical Elective		3 Professional Issues	1-4
CIV ENGR/G L E 330		3 G L E/CIV ENGR/ GEOSCI/M S & E 474	3
G L E/GEOSCI 431		1 GEOSCI/G L E 455	4
Liberal Studies Elective		3 INTEREGR 397	3
E P D 275, COM ARTS 105, COM ARTS 181, COM ARTS 262, or COM ARTS 266	2-3		
	<b>15-16</b>		<b>14-17</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Ethnic Studies		3 G L E 479	4
G L E/GEOSCI 594		3 Liberal Studies Elective	3
G L E/GEOSCI 595		1 I S Y E 313	3
G L E/GEOSCI 627		4 Technical Elective	3
Technical Elective (design)		3 Technical Elective (design)	3
	<b>14</b>		<b>16</b>

**Total Credits 126-130****ADVISING AND CAREERS****ADVISING**

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

**ENGINEERING CAREER SERVICES**

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

**PEOPLE****PROFESSORS**

Kurt L. Feigl  
Laurel B. Goodwin  
Tracey Holloway  
William J. Likos  
Steven P. Loheide II  
Clifford H. Thurber  
Basil Tikoff  
Chin H. Wu

**ASSOCIATE PROFESSORS**

Michael Cardiff  
Ken Ferrier  
Dante Fratta  
Matthew Ginder-Vogel  
Andrea Hicks  
Hiroki Sone  
James Tinjum (Director)  
Lucas Zoet

**ASSISTANT PROFESSORS**

Jesse Hampton  
Christopher Zahasky

See also Geological Engineering Faculty Directory (<https://engineering.wisc.edu/departments/civil-environmental-engineering/people/>).

**RESOURCES AND SCHOLARSHIPS****FACILITIES**

The geological engineering program utilizes laboratories that are shared with other departments. They include:

Land Information and Surveying Laboratories  
Fluid Mechanics Laboratory  
Materials Testing Laboratory  
Geology and Hydrogeology Laboratories  
Rock Mechanics Laboratory  
Geotechnical and Geoenvironmental Laboratories  
The Halliburton Geoscience Visualization Center

**ACCREDITATION****ACCREDITATION**

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Geological and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")



# ELECTRICAL AND COMPUTER ENGINEERING

Electrical engineers (EE) design and develop anything and everything that uses electricity. From the power systems that bring electricity to our homes and communications systems that allow us to keep in touch with family and friends, to the electronic devices, electrical appliances, computers, sensors, and medical equipment that shape our everyday lives. Typical careers may find an EE collaborating with medical doctors or astronauts in the space program, designing advanced automotive and transportation systems, and interacting with other engineers and professionals. Many EEs work as scientists, inventing new kinds of electronic technology, instrumentation, and devices to help people.

Electrical engineers design, develop, analyze, research, and manufacture systems such as those for power generation distribution, communication, control, and instrumentation. Electrical engineers are also concerned with the devices that make up these systems, such as transistors, integrated circuits, rotating machines, antennas, and fusion plasma confinement devices. Low-power, reliable integrated circuits allow dramatic improvements that have driven the revolution in communications and computation. High-power transistors in combination with electronic controls are serving as the foundation for new ways of efficiently utilizing electrical power.

Computer engineers design, develop, analyze, research, and manufacture hardware, software, and systems that process, store, and convey digital information. These systems include personal computers, workstations, mainframe computers, and embedded digital systems. Embedded systems consist of one to many computers within other products such as aircraft, automobiles, communication switching systems, networking components, biomedical instrumentation, and industrial automation systems. These systems are characterized by the use of digital electronic hardware and software in performing useful tasks. Computer software in combination with digital integrated circuits provides the foundation for the current revolution in computers and communications. This focus on software and digital hardware distinguishes the computer engineer from the electrical engineer.

The curriculum in the Department of Electrical and Computer Engineering requires a strong background in mathematics, physics, and computer science. In addition to basic course requirements in these areas, elective credits in the curriculum permit the student to pursue more advanced courses in these areas or in other fields, such as chemistry, biology, and mechanics. Additional electives in liberal studies broaden the programs to include such areas as economics, sociology, psychology, and history.

The electrical engineering and computer engineering programs share many courses in the first few semesters, including digital systems, electrical circuits, and electromagnetic fields. Computer engineering students take additional courses in computer science to provide the software part of their background. In the junior year, the electrical engineering program focuses on areas such as electromagnetic fields and analog electronics whereas computer engineering deals with computer hardware design and combined hardware/software design concepts. Technical elective freedom in both curricula makes it possible for students to choose from approximately 50 more specialized courses at the junior and senior levels in electrical and computer engineering, as well as courses from other departments. In both curricula, a student can choose a broad program covering an introductory treatment of a variety of areas or focus

in one or two specialized areas. An advising program, beginning in the first year, helps students plan their program.

To provide students with hands-on experience in electrical and computer engineering, specialized lab courses are offered at the senior level. For example, one involves the design and fabrication of integrated circuits and the other design and prototyping of a computer. Both classroom instruction and lab work are offered in signal processing and in embedded systems, with microprocessors and personal computers incorporated into larger systems. Independent study and design projects are encouraged at the senior level and an honors research program is available which spans multiple years of the undergraduate program.

Although the B.S. in electrical engineering and B.S. in computer engineering programs are intended to prepare students for immediate entry into the profession of engineering, increasingly, students find an additional year or more of study leading to the M.S. degree very desirable. The Ph.D. degree is the most advanced degree and emphasizes training in research.

## DEGREES/MAJORS/CERTIFICATES

- Computer Engineering, B.S. (p. 290)
- Electrical Engineering, B.S. (p. 296)

## PEOPLE

### PROFESSORS

Susan Hagness (Chair)  
 Nader Behdad  
 Daniel Botez  
 Azadeh Davoodi (Associate Chair for Undergraduate Studies)  
 John A. Gubner (Associate Chair for Operations)  
 Yu Hen Hu  
 Hongrui Jiang (Associate Chair for Graduate Studies)  
 Irena Knezevic  
 Bernard Lesieutre  
 Mikko Lipasti  
 Zhenqiang Ma  
 Luke J. Mawst  
 Robert Nowak  
 Parameswaran Ramanathan  
 Bulent Sarlioglu  
 William A. Sethares  
 Daniel van der Weide  
 Giri Venkataramanan  
 Amy E. Wendt  
 Zongfu Yu

### ASSOCIATE PROFESSORS

Kassem Fawaz (Associate Chair for Research)  
 Mikhail Kats  
 Younghyun Kim  
 Daniel Ludois  
 Paul H. Milenkovic  
 Umit Ogras  
 Dimitris Papailiopoulos  
 Line Roald  
 Andreas Velten

## ASSISTANT PROFESSORS

Joseph Andrews  
 Jennifer Choy  
 Grigoris Chrysos  
 Jeremy Coulson  
 Dominic Gross  
 Chirag Gupta  
 Tsung-Wei Huang  
 Robert Jacobberger  
 Akhilesh Jaiswal  
 Bhuvana Krishnaswamy  
 Kangwook Lee  
 Chu Ma  
 Pedro Morgado  
 Shubhra Pasayat  
 Jinia Roy  
 Joshua San Miguel  
 Manish Singh  
 Hihan Sun  
 Eric Tervo  
 Ramya Korlakai Vinayak  
 Ying Wang  
 Feng Ye  
 Lei Zhou

## TEACHING FACULTY

Mark C. Allie  
 Eric Hoffman  
 Joe Krachey  
 Srdjan Milicic

## TEACHING PROFESSOR

Eduardo Arvelo  
 Setareh Behroozi  
 Steven Fredette  
 Nathan Strachen

See also Electrical and Computer Engineering Faculty Directory (<https://directory.engr.wisc.edu/ece/faculty/>).

## RESOURCES AND SCHOLARSHIPS

## FACILITIES

Facilities available for instruction and research include:

CAE (Computer-Aided Engineering) and ECE Laboratory Computers  
 Center for Plasma Theory and Computation Computers  
 Cross-Disciplinary Electromagnetics Laboratory  
 Digital Engineering Lab  
 Digital Logic and Microprocessor Lab  
 Electronics Lab  
 Embedded Systems Lab  
 Grainger Electric Machines and Power Lab  
 High-Frequency Engineering Lab  
 HSX Plasma Laboratory  
 Integrated Circuit Facility  
 Lab for Molecular Scale Engineering  
 Photonics Lab  
 Plasma Processing & Technology Laboratory  
 Plexus Collaboratory

Power Electronics Lab  
 Qualcomm Design Labs  
 Signal Processing Lab  
 Vacuum Electronic Devices Lab  
 Wisconsin Advanced Network Design, Experimentation, and Research (WANDER) Lab

## COMPUTER ENGINEERING, B.S.

As a computer engineering major, you can learn how to design and manufacture computer hardware using the latest semiconductor chip technologies, which form the foundation of everything from automobiles to household appliances to defense systems. In addition, you can learn how to develop, analyze and research systems that process, store and convey digital information. Computer engineering majors explore cutting-edge systems, including wearable technology, mobile devices, personal computers, servers used in the cloud, and embedded systems. You can even focus on the mathematics, tools and practices associated with machine learning and data science in engineering with our new Machine Learning and Data Science named degree option. Become a Badger, and let your curiosity set your path for learning.

## ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Our graduates should be engaged in activities such as:

1. Employment in industry, government, academia, or non-profit using their degree knowledge or skills for professional functions such as teaching, research and development, quality control, technical marketing, intellectual property management, or sales. Graduates may eventually reach a leadership position supervising others.
2. Continuing education through self-study or short courses and workshops through their employer, local or online educational institutions, or attendance at professional events such as conferences.
3. Taking a principal role in starting a new business or product line.
4. Pursuing a postgraduate degree.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW-Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW-Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission

consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students who were admitted to the computer engineering degree program (classification changed to CMPE) in fall 2017 or later.

Code	Title	Credits
	Mathematics	19
	Science	20–21
	Computer Engineering Core	34
	Computer Engineering Advanced Electives	16
	Professional Electives	9
	Communication Skills	6
	Liberal Studies	15
	Free Elective	1
<b>Total Credits</b>		<b>120–121</b>

## MATHEMATICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	4
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
or MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
<i>Probability/Statistics Elective (select one)</i>		3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH/STAT 431	Introduction to the Theory of Probability	
E C E 331	Introduction to Random Signal Analysis and Statistics	
<b>Total Credits</b>		<b>19</b>

1

MATH 375 and MATH 376 taken in sequence will fulfill the requirement for MATH 234.

## SCIENCE

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
PHYSICS 201	General Physics <sup>1</sup>	5
or PHYSICS 207	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
or PHYSICS 248	A Modern Introduction to Physics	
Select one of the following:		4-5
CHEM 109	Advanced General Chemistry	
CHEM 103	General Chemistry I	
CHEM 104	General Chemistry II	

**Total Credits** **20-21**

1

Students may also fulfill this requirement by taking E M A 201 Statics and E M A 202 Dynamics or E M A 201 Statics and M E 240 Dynamics.

## COMPUTER ENGINEERING CORE

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 210	Introductory Experience in Electrical Engineering	2
E C E 219	Analytical Methods for Electromagnetics Engineering	2
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4
E C E/COMP SCI 252	Introduction to Computer Engineering	3
E C E 270	Circuits Laboratory I	1
E C E 315	Introductory Microprocessor Laboratory	1
E C E 340	Electronic Circuits I	3
E C E/COMP SCI 352	Digital System Fundamentals	3
E C E 353	Introduction to Microprocessor Systems	3
E C E/COMP SCI 354	Machine Organization and Programming	3
E C E 551	Digital System Design and Synthesis	3

**Total Credits** **34**

## COMPUTER ENGINEERING ADVANCED ELECTIVES

Code	Title	Credits
<i>Electronic Circuits Elective</i>		3
E C E 342	Electronic Circuits II	
E C E 447	Applied Communications Systems	

E C E 541	Analog MOS Integrated Circuit Design	
E C E 542	Introduction to Microelectromechanical Systems	
E C E 548	Integrated Circuit Design	
E C E 555	Digital Circuits and Components	
<i>Systems Software Elective</i>		3-4
E C E/COMP SCI 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 564	Database Management Systems: Design and Implementation	
<i>Capstone Design</i>		4
E C E 453	Embedded Microprocessor System Design	
E C E 454	Mobile Computing Laboratory <sup>1</sup>	
E C E 554	Digital Engineering Laboratory	
<i>CMPE Elective I</i>		3
E C E 537	Communication Networks	
E C E/COMP SCI 552	Introduction to Computer Architecture	
E C E 553	Testing and Testable Design of Digital Systems	
E C E 556	Design Automation of Digital Systems	
<i>CMPE Elective II</i>		3
Select from E C E 399 - E C E 699		
Select from COMP SCI 400 - COMP SCI 699 <sup>1</sup>		
<b>Total Credits</b>		<b>16-17</b>

1

E C E 454 Mobile Computing Laboratory and COMP SCI 407 Foundations of Mobile Systems and Applications cannot both be taken for degree credit.

## PROFESSIONAL ELECTIVES

Code	Title	Credits
<b>Professional Electives</b>		<b>9</b>
<i>Courses to be taken in an area of professional interest. The following courses are acceptable as professional electives if the courses are not used to meet any other degree requirements.</i>		
E C E 1	Cooperative Education Program (One co-op credit can count towards professional electives.)	
E C E 204	Data Science & Engineering	
E C E/PHYSICS 235	Introduction to Solid State Electronics	
E C E 320	Electrodynamics II	
E C E 330	Signals and Systems	
E C E 331	Introduction to Random Signal Analysis and Statistics	
E C E 332	Feedback Control Systems	
E C E 334	State Space Systems Analysis	

E C E 335	Microelectronic Devices
E C E 342	Electronic Circuits II (may be used if not already used as an Electronic Circuits Advanced Elective)
E C E 355	Electromechanical Energy Conversion
E C E 356	Electric Power Processing for Alternative Energy Systems
E C E courses numbered 399 and higher	
COMP SCI courses numbered 400 and higher	
MATH 319	Techniques in Ordinary Differential Equations
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>
MATH 321	Applied Mathematical Analysis
MATH 322	Applied Mathematical Analysis
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>
MATH 341	Linear Algebra
MATH courses numbered 400 and higher	
STAT courses numbered 400 and higher	
Any biological sciences course that is designated as intermediate or advanced level	
Any physical science course that is designated as intermediate or advanced level	
Any natural science course that is designated as advanced level, except that math, computer sciences, and statistics courses must follow the above criteria	
Engineering courses numbered 300 and higher that are not E C E or cross-listed with E C E	
Up to six credits of Professional Electives can be taken from School of Business classes numbered 300 and higher.	
DS 501	Special Topics (Wearable Technologies)
DANCE 560	Current Topics in Dance: Workshop (Making Digital Lighting Controls)

1

Students may only earn degree credit for MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra, not both.

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100 or LSC 100 or COM ARTS 100 or COM ARTS 181 or ESL 118	Introduction to College Composition Science and Storytelling Introduction to Speech Composition Elements of Speech-Honors Course Academic Writing II	3
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>6</b>

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete requirements (p. 244) <sup>1</sup>		15
<b>Total Credits</b>		<b>15</b>

1

All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. **Note:** See an E C E advisor and/or the EE Curriculum Guide (<https://www.engr.wisc.edu/department/electrical-computer-engineering/academics/bachelor-of-science-computer-engineering/>) for additional information.

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn an Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## NAMED OPTION

View as listView as grid

- COMPUTER ENGINEERING: MACHINE LEARNING AND DATA SCIENCE, B.S. (P. 295)

## TOTAL DEGREE CREDITS: 120

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics

- an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- an ability to communicate effectively with a range of audiences
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
E C E/COMP SCI 252 or Communications A	3	PHYSICS 201 E C E 210	5 2
CHEM 103, 104, or 109		4-5 Communications A or	3
Liberal Studies Elective	3	E C E/COMP SCI 252	
	<b>15-16</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
E C E 203		3 MATH/COMP SCI 240	3
E C E/COMP SCI 352	3	E C E 219	2
MATH 234		4 E C E 230	4
PHYSICS 202		5 E C E 270	1
		COMP SCI 300	3
		Liberal Studies Elective	3
	<b>15</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
E C E 353		3 E C E 315	1
E C E 220		3 E C E 551	3
E C E 340		3 Circuits Elective	3
E C E/COMP SCI 354	3	Probability and Statistics Elective	3
COMP SCI 400		3 INTEREGR 397	3
		Liberal Studies Elective	3
	<b>15</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
E C E 453, 454, or 554		4 COMP SCI 536, 537, or 564	3-4
Computer Engineering Elective	3	Computer Engineering Elective	3

Professional Elective	3	Professional Elective	3
Liberal Studies Elective	3	Liberal Studies Elective	3
Professional Elective	3	Free Elective	1
	<b>16</b>		<b>13-14</b>

**Total Credits 120-122**

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Susan Hagness (Chair)  
Nader Behdad  
Daniel Botez  
Azadeh Davoodi (Associate Chair for Undergraduate Studies)  
John A. Gubner (Associate Chair for Operations)  
Yu Hen Hu  
Hongrui Jiang (Associate Chair for Graduate Studies)  
Irena Knezevic  
Bernard Lesieutre  
Mikko Lipasti  
Zhenqiang Ma  
Luke J. Mawst  
Robert Nowak  
Parameswaran Ramanathan  
Bulent Sarlioglu  
William A. Sethares  
Daniel van der Weide  
Giri Venkataramanan  
Amy E. Wendt  
Zongfu Yu

### ASSOCIATE PROFESSORS

Kassem Fawaz (Associate Chair for Research)  
Mikhail Kats  
Younghyun Kim

Daniel Ludois  
 Paul H. Milenkovic  
 Umit Ogras  
 Dimitris Papailiopoulos  
 Line Roald  
 Andreas Velten

## ASSISTANT PROFESSORS

Joseph Andrews  
 Jennifer Choy  
 Grigoris Chrysos  
 Jeremy Coulson  
 Dominic Gross  
 Chirag Gupta  
 Tsung-Wei Huang  
 Robert Jacobberger  
 Akhilesh Jaiswal  
 Bhuvana Krishnaswamy  
 Kangwook Lee  
 Chu Ma  
 Pedro Morgado  
 Shubhra Pasayat  
 Jinia Roy  
 Joshua San Miguel  
 Manish Singh  
 Hihan Sun  
 Eric Tervo  
 Ramya Korlakai Vinayak  
 Ying Wang  
 Feng Ye  
 Lei Zhou

## TEACHING FACULTY

Mark C. Allie  
 Eric Hoffman  
 Joe Krachey  
 Srdjan Milicic

## TEACHING PROFESSOR

Eduardo Arvelo  
 Setareh Behroozi  
 Steven Fredette  
 Nathan Strachen

See also Electrical and Computer Engineering Faculty Directory (<https://directory.engr.wisc.edu/ece/faculty/>).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Electrical, Computer, Communication, Telecommunication(s), and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

# COMPUTER ENGINEERING: MACHINE LEARNING AND DATA SCIENCE, B.S.

The Machine Learning and Data Science option in Computer Engineering prepares students for a career in computer engineering with an emphasis on machine learning and data science. The purpose of this option is to provide guidance and recognition for students pursuing this career path. The option uses 19 of the elective credits within the 120-credit Computer Engineering B.S. degree program to focus on the mathematics, tools, and practices associated with machine learning and data science in engineering. Students selecting this option must submit an option declaration form to the dean's office in Engineering Hall.

## REQUIREMENTS

### MACHINE LEARNING AND DATA SCIENCE REQUIRED COURSES

Code	Title	Credits
E C E 204	Data Science & Engineering <sup>1</sup>	3
E C E 331	Introduction to Random Signal Analysis and Statistics (typically offered fall) <sup>2</sup>	3
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning <sup>1</sup>	3
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks <sup>3</sup>	3
COMP SCI 564	Database Management Systems: Design and Implementation <sup>4</sup>	4

**Total Credits** **16**

**1**

This course should be taken as a Professional Elective.

**2**

This course fulfills the Probability requirement.

**3**

This course should be taken as a CMPE Elective II.

**4**

This course fulfills the System Software Requirement.

### MACHINE LEARNING AND DATA SCIENCE ELECTIVE

Code	Title	Credits
Choose one as an Advanced, Professional, or Free Elective:		
E C E 431	Digital Signal Processing (typically offered fall) <sup>1</sup>	3-4
E C E/COMP SCI/ I SY E 524	Introduction to Optimization <sup>1</sup>	
E C E/ COMP SCI 533	Image Processing (typically offered fall) <sup>1</sup>	
E C E/ COMP SCI 561	Probability and Information Theory in Machine Learning (typically offered fall)	

COMP SCI/ISY E/ MATH/STAT 525	Linear Optimization <sup>1</sup>
COMP SCI 540	Introduction to Artificial Intelligence
COMP SCI/ B M I 567	Medical Image Analysis <sup>1</sup>
COMP SCI/ B M I 576	Introduction to Bioinformatics
COMP SCI 577	Introduction to Algorithms
ISY E 412	Fundamentals of Industrial Data Analytics
ISY E 521	Machine Learning in Action for Industrial Engineers
L I S 461	Data and Algorithms: Ethics and Policy
MATH/ISY E/ OTM/STAT 632	Introduction to Stochastic Processes <sup>1</sup>
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus <sup>1</sup>
M S & E 460	Introduction to Computational Materials Science and Engineering <sup>1</sup>
STAT 421	Applied Categorical Data Analysis <sup>1</sup>
STAT/M E 424	Statistical Experimental Design <sup>1</sup>
STAT 456	Applied Multivariate Analysis <sup>1</sup>
STAT 461	Financial Statistics <sup>1</sup>

<sup>1</sup>

This course has additional requisites not required for the B.S. in Computer Engineering.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221	3	MATH 222	4
E C E/COMP SCI 252	3	PHYSICS 201	5
or Communications A		E C E 204	3
CHEM 103	4	Communications A or	3
Liberal Studies Elective	3	E C E/COMP SCI 252	3
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
E C E 203	3	MATH/COMP SCI 240	3
E C E 210	2	E C E 219	2
E C E/COMP SCI 352	3	E C E 230	4
MATH 234	4	E C E 270	1
PHYSICS 202	5	COMP SCI 300	3
		Liberal Studies Elective	3
	<b>17</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
E C E 353	3	E C E 315	1
E C E 340	3	E C E 551	3
E C E 331	3	E C E 220	3

E C E/COMP SCI 354	3	Circuits Elective	3
COMP SCI 400	3	INTEREGR 397	3
		Liberal Studies Elective	3
	<b>15</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
E C E/COMP SCI/ M E 532	3	COMP SCI 564	4
E C E 453, 454, or 554	4	E C E/COMP SCI/ M E 539	3
Computer Engineering or Professional Elective	3	Liberal Studies Elective	3
Liberal Studies Elective	3	Machine Learning and Data Science Elective	3
	<b>13</b>		<b>13</b>

**Total Credits 120**

# ELECTRICAL ENGINEERING, B.S.

As an electrical engineering major, you can learn to design, develop, analyze, research and create systems for a wide variety of fields, including power generation, communication, healthcare and instrumentation. You'll also learn about the devices and components that make up these systems –from the smallest transistors (of which there can be hundreds of billions on a single chip!) to antennas, lasers, electric engines and even fusion devices that could provide power for the world.

Electrical engineering majors learn the tools for analyzing and operating systems, including signal processing, control and machine learning. You can even focus on the mathematics, tools and practices associated with machine learning and data science in engineering with our new Machine Learning and Data Science named degree option. In the UW-Madison ECE department, our program will match your ambition.

## ELECTRICAL ENGINEERING AND COMPUTER ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Our graduates should be engaged in activities such as:

1. Employment in industry, government, academia, or nonprofit using their degree knowledge or skills for professional functions such as teaching, research and development, quality control, technical marketing, intellectual property management, or sales. Graduates may eventually reach a leadership position supervising others.
2. Continuing education through self-study or short courses and workshops through their employer, local or online educational institutions, or attendance at professional events such as conferences.
3. Taking a principal role in starting a new business or product line.
4. Pursuing a postgraduate degree.



## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

### SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/>

[undergraduate-student-advising/](#)) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SUMMARY OF REQUIREMENTS

The following curriculum applies to students who were admitted to the electrical engineering degree program (classification changed to EE) in Fall 2017 or later.

Code	Title	Credits
	Mathematics	16
	Science	17-18
	Electrical Engineering Core	33
	Electrical Engineering Advanced Electives	24
	Professional Electives	9
	Communication Skills	6
	Liberal Studies	15
<b>Total Credits</b>		<b>120-121</b>

### MATHEMATICS <sup>1</sup>

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	

MATH 234	Calculus--Functions of Several Variables <sup>2</sup>	4
Probability and Statistics Elective		3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/M E 424	Statistical Experimental Design	
MATH/STAT 431	Introduction to the Theory of Probability	
E C E 331	Introduction to Random Signal Analysis and Statistics	
<b>Total Credits</b>		<b>16</b>

1

In addition to the courses listed in the Mathematics Requirement at least one additional course must be completed for the advanced mathematics auxiliary condition. Choose: MATH 319 Techniques in Ordinary Differential Equations, MATH 320 Linear Algebra and Differential Equations, MATH 340 Elementary Matrix and Linear Algebra, MATH 341 Linear Algebra, E C E 334 State Space Systems Analysis, or E C E/COMP SCI/M E 532 Matrix Methods in Machine Learning to satisfy the advanced math auxiliary condition. These credits count toward either professional electives or advanced elective credit depending on the course.

2

MATH 375 and MATH 376 taken in sequence will fulfill the requirement for MATH 234, professional elective credit, and advanced math auxiliary condition.

## SCIENCE

Code	Title	Credits
COMP SCI 300	Programming II	3
PHYSICS 201	General Physics <sup>1</sup>	5
or PHYSICS 207	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
or PHYSICS 248	A Modern Introduction to Physics	
Select one of the following:		4-5
CHEM 109	Advanced General Chemistry	
CHEM 103	General Chemistry I	
CHEM 104	General Chemistry II	
<b>Total Credits</b>		<b>17-18</b>

1

Students may also fulfill this requirement by taking E M A 201 Statics and E M A 202 Dynamics or E M A 201 Statics and M E 240 Dynamics.

## ELECTRICAL ENGINEERING CORE

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 210	Introductory Experience in Electrical Engineering	2
E C E 219	Analytical Methods for Electromagnetics Engineering	2
E C E 220	Electrodynamics I	3
E C E 230	Circuit Analysis	4

E C E/PHYSICS 235	Introduction to Solid State Electronics	3
E C E/COMP SCI 252	Introduction to Computer Engineering	3
E C E 270	Circuits Laboratory I	1
E C E 271	Circuits Laboratory II	1
E C E 330	Signals and Systems	3
E C E 340	Electronic Circuits I	3
E C E/COMP SCI 352	Digital System Fundamentals	3
E C E 370	Advanced Laboratory	2
<b>Total Credits</b>		<b>33</b>

## ELECTRICAL ENGINEERING ADVANCED ELECTIVES

Students must take 22 credits in at least three of six areas and at least 2 credits in two laboratory courses.

- At least 9 credits must be in E C E courses numbered 400 and above.
- At least one course must be a capstone design course.
- At least one course must be MATH 319 Techniques in Ordinary Differential Equations, MATH 320 Linear Algebra and Differential Equations, MATH 340 Elementary Matrix and Linear Algebra, MATH 341 Linear Algebra, E C E 334 State Space Systems Analysis, or E C E/COMP SCI/M E 532 Matrix Methods in Machine Learning to satisfy the advanced math auxiliary condition. MATH 319 Techniques in Ordinary Differential Equations, MATH 320 Linear Algebra and Differential Equations, MATH 340 Elementary Matrix and Linear Algebra, and MATH 341 Linear Algebra count toward professional electives. E C E 334 State Space Systems Analysis and E C E/COMP SCI/M E 532 Matrix Methods in Machine Learning count as advanced electives.
- Students can count 1 credit of E C E 1 Cooperative Education Program toward advanced electives.
- Students can count up to 6 credits of E C E 399 Independent Study, E C E 489 Honors in Research or E C E 699 Advanced Independent Study towards advanced electives.
- Students can take E C E 379 Special Topics in Electrical and Computer Engineering and E C E 601 Special Topics in Electrical and Computer Engineering as advanced electives.
- Students can count up to 5 credits of COMP SCI courses numbered 500 and above (not including independent study)
- E C E courses numbered 300 and above that are not specified in an area can count toward the total number of advanced elective credits required.

### Laboratory

Code	Title	Credits
<i>Select at least one course from E C E 301 to E C E 317</i>		
<i>An additional laboratory course must be taken from the following list:</i>		
E C E 303	Introduction to Real-Time Digital Signal Processing	
E C E 304	Electric Machines Laboratory	
E C E 305	Semiconductor Properties Laboratory	
E C E 306	Linear Active Circuits Laboratory	

E C E 308	Nonlinear Electronic Circuits Laboratory
E C E 313	Optoelectronics Lab
E C E 315	Introductory Microprocessor Laboratory
E C E 317	Sensors Laboratory
E C E 432	Digital Signal Processing Laboratory
E C E 453	Embedded Microprocessor System Design
E C E/B M E 462	Medical Instrumentation <sup>1</sup>
E C E 504	Electric Machine & Drive System Laboratory
E C E 512	Power Electronics Laboratory
E C E 545	Advanced Microwave Measurements for Communications
E C E 549	Integrated Circuit Fabrication Laboratory
E C E 554	Digital Engineering Laboratory
E C E/M E 577	Automatic Controls Laboratory

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Fields & Waves

Code	Title	Credits
E C E 320	Electrodynamics II	3
E C E 420	Electromagnetic Wave Transmission	3
E C E 434	Photonics	3
E C E/N E/ PHYSICS 525	Introduction to Plasmas	3
E C E/N E/ PHYSICS 527	Plasma Confinement and Heating	3
E C E/N E 528	Plasma Processing and Technology	3
E C E 536	Integrated Optics and Optoelectronics	3
E C E/PHYSICS 546	Lasers	2-3
E C E 547	Advanced Communications Circuit Design <sup>1</sup>	3

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Systems & Control

Code	Title	Credits
E C E 332	Feedback Control Systems	3
E C E 334	State Space Systems Analysis	3
E C E/M E 439	Introduction to Robotics <sup>1</sup>	3
E C E/M E 577	Automatic Controls Laboratory <sup>1</sup>	4

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Power & Machines

Code	Title	Credits
E C E 355	Electromechanical Energy Conversion	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
E C E 411	Introduction to Electric Drive Systems	3
E C E 412	Power Electronic Circuits <sup>1</sup>	3
E C E 427	Electric Power Systems <sup>1</sup>	3
E C E 504	Electric Machine & Drive System Laboratory	2-3
E C E 511	Theory and Control of Synchronous Machines	3
E C E 512	Power Electronics Laboratory <sup>1</sup>	3

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Communications & Signal Processing

Code	Title	Credits
E C E 331	Introduction to Random Signal Analysis and Statistics	3
E C E 401	Electro-Acoustical Engineering	3
E C E 431	Digital Signal Processing <sup>1</sup>	3
E C E 432	Digital Signal Processing Laboratory <sup>1</sup>	3
E C E/COMP SCI/ MATH 435	Introduction to Cryptography	3
E C E 436	Communication Systems I <sup>1</sup>	3
E C E 437	Communication Systems II <sup>1</sup>	3
E C E 447	Applied Communications Systems <sup>1</sup>	3
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning <sup>1</sup>	3
E C E/ COMP SCI 533	Image Processing <sup>1</sup>	3
E C E 537	Communication Networks <sup>1</sup>	3
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks <sup>1</sup>	3
E C E/MATH 641	Introduction to Error-Correcting Codes	3

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Circuits & Devices

Code	Title	Credits
E C E 335	Microelectronic Devices	3
E C E 342	Electronic Circuits II	3
E C E 445	Semiconductor Physics and Devices	3
E C E/B M E 462	Medical Instrumentation <sup>1</sup>	3
E C E 466	Electronics of Solids	3
E C E 541	Analog MOS Integrated Circuit Design <sup>1</sup>	3

E C E 542	Introduction to Microelectromechanical Systems <sup>1</sup>	3
E C E 545	Advanced Microwave Measurements for Communications <sup>1</sup>	3
E C E 548	Integrated Circuit Design <sup>1</sup>	3
E C E 549	Integrated Circuit Fabrication Laboratory <sup>1</sup>	3
E C E 555	Digital Circuits and Components <sup>1</sup>	3

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### Computers & Computing

Code	Title	Credits
E C E 353	Introduction to Microprocessor Systems	3
E C E/COMP SCI 354	Machine Organization and Programming	3
E C E 453	Embedded Microprocessor System Design <sup>1</sup>	4
E C E 454	Mobile Computing Laboratory <sup>1</sup>	4
E C E/B M E 463	Computers in Medicine	3
E C E/COMP SCI 506	Software Engineering	3
E C E 551	Digital System Design and Synthesis <sup>1</sup>	3
E C E/COMP SCI 552	Introduction to Computer Architecture	3
E C E 553	Testing and Testable Design of Digital Systems <sup>1</sup>	3
E C E 554	Digital Engineering Laboratory <sup>1</sup>	4
E C E 556	Design Automation of Digital Systems <sup>1</sup>	3

1

Designated as a capstone course. Students can also take E C E 491 Senior Design Project for capstone credit.

### PROFESSIONAL ELECTIVES

Code	Title	Credits
		9
<i>Classes to be taken in an area of professional interest. The following courses are acceptable as professional electives if the courses are not used to meet any other degree requirements.</i>		
MATH/COMP SCI 240	Introduction to Discrete Mathematics	
E C E 204	Data Science & Engineering	
E C E 320	Electrodynamics II	
E C E 331	Introduction to Random Signal Analysis and Statistics	
E C E 332	Feedback Control Systems	
E C E 334	State Space Systems Analysis	
E C E 335	Microelectronic Devices	
E C E 342	Electronic Circuits II	
E C E 353	Introduction to Microprocessor Systems	

E C E/COMP SCI 354	Machine Organization and Programming	
E C E 355	Electromechanical Energy Conversion	
E C E 356	Electric Power Processing for Alternative Energy Systems	
E C E courses numbered 399 and higher		
COMP SCI courses numbered 400 and higher		
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>	
MATH 341	Linear Algebra	
MATH courses numbered 400 and higher		
STATS courses numbered 400 and higher		
Any biological science course that is designated as intermediate or advanced		
Any physical science course that is designated as intermediate or advanced (except PHYSICS 241)		
Any natural science course that is designated as advanced except that Math, Computer Sciences, and Statistics courses must follow the above criteria		
Engineering courses numbered 300 and higher that are not E C E or cross-listed with E C E		
Up to six credits of Professional Electives can be taken from School of Business classes numbered 300 and higher.		
DS 501	Special Topics (Wearable Technologies)	
DANCE 560	Current Topics in Dance: Workshop (Making Digital Lighting Controls)	

1

Students may only earn degree credit for MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra, not both.

### COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or COM ARTS 181	Elements of Speech-Honors Course	
or ESL 118	Academic Writing II	
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>6</b>

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete requirements (p. 244) <sup>1</sup>		15
<b>Total Credits</b>		<b>15</b>

1

All liberal studies credits must be identified with the letter H, S, L, or Z. Language courses are acceptable without the letter and are considered humanities. **Note:** See an E C E advisor and/or the EE Curriculum Guide for additional information.

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn an Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## NAMED OPTION

View as listView as grid

- ELECTRICAL ENGINEERING: MACHINE LEARNING AND DATA SCIENCE, B.S. (P. 303)

## TOTAL DEGREE CREDITS: 120

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and

welfare, as well as global, cultural, social, environmental, and economic factors

3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 E C E/COMP SCI 252	3
CHEM 103, 104, or 109		4-5 PHYSICS 201	5
E C E 210		2 MATH 222	4
or Communication A		Communication A or	3
Liberal Studies Elective	3	E C E 210	
<b>14-15</b>			<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
PHYSICS 202		5 E C E 219	2
MATH 234		4 COMP SCI 300	3
E C E 203		3 E C E 230	4
Liberal Studies Elective	3	E C E 270	1
		E C E 330	3
<b>15</b>			<b>13</b>

#### Third Year

Fall	Credits	Spring	Credits
E C E/PHYSICS 235		3 ECE Advanced Elective	3
Statistics/Probability Elective		3 ECE Advanced Elective	3
E C E 340		3 INTEREGR 397	3
E C E 271		1 EE Advanced Lab (3XX)	1
E C E/COMP SCI 352		3 Liberal Studies Elective	3
E C E 220		3 Professional Elective (Adv Math)	3
<b>16</b>			<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Liberal Studies Elective		3 Professional Elective	3
ECE Advanced Elective		3 ECE Advanced Elective (4XX)	3
ECE Advanced Elective		4 ECE Advanced Elective (4XX)	3
EE Advanced Lab (3XX)		1 ECE Capstone Design	3

E C E 370	2 Liberal Studies Elective	3
Professional Elective	3	
	<b>16</b>	<b>15</b>

**Total Credits 120-121**

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Susan Hagness (Chair)  
 Nader Behdad  
 Daniel Botez  
 Azadeh Davoodi (Associate Chair for Undergraduate Studies)  
 John A. Gubner (Associate Chair for Operations)  
 Yu Hen Hu  
 Hongrui Jiang (Associate Chair for Graduate Studies)  
 Irena Knezevic  
 Bernard Lesieutre  
 Mikko Lipasti  
 Zhenqiang Ma  
 Luke J. Mawst  
 Robert Nowak  
 Parameswaran Ramanathan  
 Bulent Sarlioglu  
 William A. Sethares  
 Daniel van der Weide  
 Giri Venkataramanan  
 Amy E. Wendt  
 Zongfu Yu

### ASSOCIATE PROFESSORS

Kassem Fawaz (Associate Chair for Research)  
 Mikhail Kats  
 Younghyun Kim  
 Daniel Ludois

Paul H. Milenkovic  
 Umit Ogras  
 Dimitris Papailiopoulos  
 Line Roald  
 Andreas Velten

### ASSISTANT PROFESSORS

Joseph Andrews  
 Jennifer Choy  
 Grigoris Chrysos  
 Jeremy Coulson  
 Dominic Gross  
 Chirag Gupta  
 Tsung-Wei Huang  
 Robert Jacobberger  
 Akhilesh Jaiswal  
 Bhuvana Krishnaswamy  
 Kangwook Lee  
 Chu Ma  
 Pedro Morgado  
 Shubhra Pasayat  
 Jinia Roy  
 Joshua San Miguel  
 Manish Singh  
 Hihan Sun  
 Eric Tervo  
 Ramya Korlakai Vinayak  
 Ying Wang  
 Feng Ye  
 Lei Zhou

### TEACHING FACULTY

Mark C. Allie  
 Eric Hoffman  
 Joe Krachey  
 Srdjan Milicic

### TEACHING PROFESSOR

Eduardo Arvelo  
 Setareh Behroozi  
 Steven Fredette  
 Nathan Strachen

See also Electrical and Computer Engineering Faculty Directory (<https://directory.engr.wisc.edu/ece/faculty/>).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Electrical, Computer, Communication, Telecommunication(s), and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

# ELECTRICAL ENGINEERING: MACHINE LEARNING AND DATA SCIENCE, B.S.

The Machine Learning and Data Science option in Electrical Engineering prepares students for a career in electrical engineering with an emphasis on machine learning and data science. The purpose of this option is to provide guidance and recognition for students pursuing this career path. The option uses 18 of the elective credits within the 120-credit Electrical Engineering B.S. degree program to focus on the mathematics, tools, and practices associated with machine learning and data science in engineering. Students selecting this option must submit an option declaration form to the dean's office in Engineering Hall.

## REQUIREMENTS

### MACHINE LEARNING AND DATA SCIENCE REQUIRED COURSES

Code	Title	Credits
E C E 204	Data Science & Engineering <sup>1</sup>	3
E C E 331	Introduction to Random Signal Analysis and Statistics (typically offered fall) <sup>2</sup>	3
Choose one:		3
MATH 320	Linear Algebra and Differential Equations <sup>3</sup>	
MATH 340	Elementary Matrix and Linear Algebra <sup>3</sup>	
MATH 341	Linear Algebra <sup>3</sup>	
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning <sup>4</sup>	3
E C E/COMP SCI/ I S Y E 524	Introduction to Optimization	3
<b>Total Credits</b>		<b>15</b>

1

This course should be taken as a Professional Elective.

2

This course fulfills the Probability requirement.

3

This course should be taken as a Professional Elective and meets the advanced math auxiliary condition. MATH 375 Topics in Multi-Variable Calculus and Linear Algebra and MATH 376 Topics in Multi-Variable Calculus and Differential Equations taken in sequence will fulfill the requirement for MATH 340 Elementary Matrix and Linear Algebra.

4

This course should be taken as an Advanced Elective and meets the advanced math auxiliary condition.

## MACHINE LEARNING AND DATA SCIENCE ELECTIVE

Code	Title	Credits
Choose one as an Advanced or Professional Elective:		3-4
E C E 431	Digital Signal Processing (typically offered fall)	
E C E/ COMP SCI 533	Image Processing (typically offered fall)	
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks	
E C E/ COMP SCI 561	Probability and Information Theory in Machine Learning (typically offered fall)	
COMP SCI/I S Y E/ MATH/STAT 525	Linear Optimization	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 564	Database Management Systems: Design and Implementation <sup>1</sup>	
COMP SCI/ B M I 567	Medical Image Analysis <sup>1</sup>	
COMP SCI/ B M I 576	Introduction to Bioinformatics	
COMP SCI 577	Introduction to Algorithms <sup>1</sup>	
I S Y E 412	Fundamentals of Industrial Data Analytics	
I S Y E 521	Machine Learning in Action for Industrial Engineers	
L I S 461	Data and Algorithms: Ethics and Policy	
MATH/I S Y E/ OTM/STAT 632	Introduction to Stochastic Processes <sup>1</sup>	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus <sup>1</sup>	
M S & E 460	Introduction to Computational Materials Science and Engineering <sup>1</sup>	
STAT 421	Applied Categorical Data Analysis <sup>1</sup>	
STAT/M E 424	Statistical Experimental Design <sup>1</sup>	
STAT 456	Applied Multivariate Analysis <sup>1</sup>	
STAT 461	Financial Statistics <sup>1</sup>	

1

This course has additional requisites not required for the B.S. in Electrical Engineering.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 PHYSICS 201	5
CHEM 103		4 MATH 222	4
E C E 210		2 Communication A or Liberal Studies Elective	3

Liberal Studies Elective or Communication A	3 E C E/COMP SCI 252	3
<b>14</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
PHYSICS 202	5	COMP SCI 300	3
MATH 234	4	E C E 219	2
E C E 203	3	E C E 230	4
E C E 204	3	E C E 330	3
		E C E 270	1
<b>15</b>		<b>13</b>	

**Third Year**

Fall	Credits	Spring	Credits
E C E/PHYSICS 235	3	ECE Advanced Elective	3
E C E 331	3	INTEREGR 397	3
E C E 340	3	Liberal Studies Elective	3
E C E 271	1	EE Advanced Lab (3XX)	1
E C E 220	3	Liberal Studies Elective	3
E C E/COMP SCI 352	3	MATH 320	3
<b>16</b>		<b>16</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
E C E/COMP SCI/ I S Y E 524	3	ECE Advanced Elective (4XX)	3
E C E 370	2	ECE Advanced Elective (4XX)	3
ECE Advanced Elective	3	Machine Learning and Data Science Elective	3
ECE Advanced Elective	4	E C E/COMP SCI/ M E 532	3
Liberal Studies Elective	3	Liberal Studies Elective	3
EE Advanced Lab (3XX)	1		
<b>16</b>		<b>15</b>	

**Total Credits 120****ENGINEERING - COLLEGE-  
WIDE****DEGREES/MAJORS/CERTIFICATES**

- College of Engineering Honors in the Liberal Arts (p. 304)
- International Engineering, Certificate (p. 305)
- Naval Science, BNS (p. 305)
- Technical Communication, Certificate (p. 307)

**COLLEGE OF ENGINEERING  
HONORS IN THE LIBERAL  
ARTS**

In general, the concept of academic honors programs in higher education focuses resources on especially able students who are interested in challenging themselves at unusually high levels. This concept does not translate to the College of Engineering programs. All engineering classes are challenging, focused, and require high academic ability in math and science. Further, in engineering, resources must be used to make sure all engineering graduates—not just a few—excel in every respect. Nonetheless, honors opportunities are available on a limited basis in the College of Engineering.

**HOW TO GET IN**

EHLA allows for a small group of highly motivated students who have special, broad interests in liberal arts to take challenging background courses in physical science, natural science, humanities, foreign language, and social science to supplement their engineering program. The EHLA program will allow students access to honors sections in these College of Letters & Science courses. Honors courses in physical and natural science are available to invited engineering freshmen whether or not they are selected for EHLA. Conversely, no engineering courses are available as honors courses. Admission to EHLA is based on applications from high school students submitted before May 23 of their last year in high school. Fewer than 30 students are admitted each year. Interested students can find the application on the College of Engineering website (<https://www.engr.wisc.edu/academics/undergraduate-academics/honors/>) and should contact Dr. Andrew Greenberg at [greenberg2@wisc.edu](mailto:greenberg2@wisc.edu) with questions.

**REQUIREMENTS**

The EHLA designation will be awarded to those admitted to the EHLA program who meet the following requirements when they graduate with an engineering degree:

- A cumulative grade point average of at least 3.3 in all honors courses through the semester in which all criteria for EHLA are met;
- Completion of at least 24 credits in Honors courses with grades of B or better;
- Completion of at least 6 credits in Honors courses in the humanities, 6 credits in social sciences, and 6 credits in natural sciences;
- Completion of at least 15 Honors credits in courses with the designation "H" or "!" (honors sections).

Because the classes for which Honors designation is available are taken mainly in the first year, students do not apply to the EHLA program once they begin in the College of Engineering. Students can, however, transfer from the College of Letters & Science Honors in Liberal Arts program into the EHLA program provided they transfer into an engineering program in their first two years.



## INTERNATIONAL ENGINEERING, CERTIFICATE

The certificate in international engineering provides recognition for a student's efforts to prepare for an international career by learning about one or more countries outside the United States. An undergraduate student in the College of Engineering or the Department of Biological Systems Engineering can earn the certificate by completing at least 16 credits in courses with a primary focus on the language, culture, history, geography, society, or institutions of a particular country or region of the world.

### HOW TO GET IN

The application process is outlined on the Certificate in International Engineering website (<https://www.engr.wisc.edu/academics/undergraduate-academics/certificate-in-international-engineering/>). Students must have a cumulative GPA of at least 2.75 and have met progression requirements to apply.

### REQUIREMENTS

#### CERTIFICATE COURSE REQUIREMENTS

A minimum of 16 credits is required.

#### LANGUAGE COURSES (0-9 CREDITS)

Although not required, a maximum of 9 credits may be devoted to courses in a foreign language. Only foreign language courses beyond the initial 8 credits in that particular language may be used to satisfy this requirement. A maximum of 3 credits from Independent Study or Directed Study may be counted toward either the language requirement or the area studies requirement. Advanced Placement credits, foreign language retroactive credits, and transfer credits are accepted.

#### AREA STUDIES COURSES (6-15 CREDITS)

A minimum of 6 credits must be devoted to courses with a major emphasis on the culture, history, geography, society, or institutions of one country or the countries in a geographically identifiable region of the world. These courses must be selected from at least two departments. A maximum of 3 credits from Independent Study or Directed Study may be counted toward either the language requirement or the area studies requirement. Advanced Placement credits, foreign language retroactive credits, and transfer credits are accepted.

#### INTERNATIONAL EXPERIENCE

A documented stay of five weeks or longer for study or engineering-related volunteer or work (including internship and co-op) in the designated country or region is required.

#### INTERNATIONAL ENGINEERING COURSE

After one's international experience, successful completion of the 1-credit course INTEREGR 413 Current Issues in International Engineering is required. **This course is offered during the fall semester only.**

Students may not elect the pass/fail option for any course that is used to satisfy the requirements for the certificate, with the exception of

courses taken on a study abroad program through International Academic Programs (<https://studyabroad.wisc.edu/>) in collaboration with the College of Engineering. Successful completion of certificate requirements will be noted on the student's official transcript. For additional information, contact [international@engr.wisc.edu](mailto:international@engr.wisc.edu).

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Study the language and/or culture of a specific area of the world.
2. Obtain a significant international experience in that same area of the world (meaning spending 5 weeks or more in the area).
3. Understand and be able to articulate specific insights about the international dimension of engineering as a profession.

## NAVAL SCIENCE, BNS

The College of Engineering recommends candidates for the Bachelor of Naval Science degree.

Earning both the BNS degree and the B.S. degree in the field of engineering may require five years. Engineering students in an ROTC program may require four and one-half to five years to complete both degree and commissioning requirements.

For additional information see the Officer Education (p. 27) section of the *Guide*.

### HOW TO GET IN

The Naval Science BNS is not a stand-alone degree. Students interested in pursuing this degree should consult with the Navy ROTC: 1610 University Ave, Madison, WI 53726 | 608-262-3794 | [nrotc@aviation.wisc.edu](mailto:nrotc@aviation.wisc.edu) ([nrotc@aviation.wisc.edu](mailto:nrotc@aviation.wisc.edu))

### REQUIREMENTS

The College of Engineering recommends candidates for the Bachelor of Naval Science degree. Requirements for the degree are:

1. A total of 136 credits including no fewer than 100 credits of elected and required courses in one of the engineering curricula.
2. Completion of these additional requirements as approved by the Department of Naval Science: English, two semesters; American Military Affairs/National Security Policy, one semester (see below).

Earning both the BNS degree and the B.S. in the field of engineering may require five years. Engineering students in an ROTC program may require four and one-half to five years to complete both degree and commissioning requirements.

**REQUIRED COURSES:**

Code	Title	Credits
Naval Laboratory (1 cr each):		8-10
NAV SCI 175	Introductory Naval Laboratory I	
NAV SCI 176	Introductory Naval Laboratory II	
NAV SCI 275	Elementary Naval Laboratory I	
NAV SCI 276	Elementary Naval Laboratory II	
NAV SCI 375	Intermediate Naval Laboratory I	
NAV SCI 376	Intermediate Naval Laboratory II	
NAV SCI 475	Advanced Naval Laboratory I	
NAV SCI 476	Advanced Naval Laboratory II	
NAV SCI 575	Professional Naval Laboratory I <sup>1</sup>	
NAV SCI 576	Professional Naval Laboratory II <sup>1</sup>	
NAV SCI 101	Introduction to Naval Science	2
NAV SCI 102	Seapower-Maritime Affairs <sup>2</sup>	3
NAV SCI 201	Naval Leadership and Management	3
NAV SCI 402	Naval Leadership and Ethics	3
Six credits of English. Must be writing-intensive and focus on areas of grammar and composition. Accepted courses include those designated COM A or COM B		6
Three credits of American Military History or National Security Policy. Accepted courses include:		3
POLI SCI 104	Introduction to American Politics and Government	
POLI SCI 140	Introduction to International Relations	
POLI SCI 160	Introduction to Political Theory	
POLI SCI/ LEGAL ST 217	Law, Politics and Society	
POLI SCI 347	Terrorism	
POLI SCI 348	Analysis of International Relations	
POLI SCI 356	Principles of International Law	
POLI SCI 377	Nuclear Weapons and World Politics	
HISTORY 427	The American Military Experience to 1902	
HISTORY 428	The American Military Experience Since 1899	
MIL SCI 491	American Military History	
Completion of one of the following tracks:		
Navy-Option Track:		
NAV SCI 202	Navigation	
NAV SCI 301	Naval Engineering	
NAV SCI 302	Naval Weapons	
NAV SCI 401	Naval Operations	
Six credits of calculus to include a first- and second-semester course <sup>3</sup>		
Six credits of calculus-based physics to include a first- and second-semester course <sup>3</sup>		
Three credits of World Culture and Regional Studies. Must have an emphasis on regions encompassed by Sub-Saharan Africa, North Africa, Central Asia, East Asia, South Asia, Southwest Asia, Southeast Asia, Central America, Middle East, or Russia/Eastern Europe		
Marine Corps-Option Track:		

NAV SCI 350 Fundamentals of Maneuver Warfare

NAV SCI 351 Land Campaigns

**1**

Add NAV SCI 575 Professional Naval Laboratory I if taking a 9th semester, NAV SCI 576 Professional Naval Laboratory II if taking a 10th semester.

**2**

May substitute HISTORY 428 The American Military Experience Since 1899.

**3**

AP/IB/Transfer credits accepted only for first-semester course.

Also, to be conferred a BNS degree, the candidate must satisfy the degree requirements for *any* Engineering major, and the above-stated Naval Science requirements.

**LEARNING OUTCOMES**

1. Understand and apply the fundamentals and principles of Naval Science.
2. Understand and apply Naval Science professional knowledge and core competencies.
3. Be prepared to perform successfully in the technical and critical reasoning requirements of their careers and pursue continuing education in a field of application within the Naval Service.
4. Understand and demonstrate a strong sense of personal integrity, honor, and individual responsibility and associated ethical leadership required of military officers.

**FOUR-YEAR PLAN****SAMPLE FOUR YEAR PLANS**

The Bachelor of Naval Science degree is not a stand-alone degree. The plans below must be integrated with a student's undergraduate College of Engineering major plan. See your engineering advisor and Naval ROTC program staff with questions.

**NAVY SCHOLARSHIP/COLLEGE PROGRAMMER****First Year**

Fall	Credits	Spring	Credits
NAV SCI 175		1 NAV SCI 176	1
Calculus 1/Math 1		3-5 Calculus 2/Math 2	3-5
English 1		3 English 2	3-5
NAV SCI 101		2 HISTORY 428 (in place of NAV SCI 102)	3-4
<b>9-11</b>		<b>10-15</b>	

**Second Year**

Fall	Credits	Spring	Credits
NAV SCI 275		1 NAV SCI 276	1
Physics 1/Physical Science 1		3-5 Physics 2/Physical Science 2	3-5
NAV SCI 201		3 NAV SCI 202	3
<b>7-9</b>		<b>7-9</b>	

**Third Year**

Fall	Credits	Spring	Credits
NAV SCI 375		1 NAV SCI 376	1
World Culture		3 Amer Mil History/ National Security Policy	3
NAV SCI 301		3 NAV SCI 302	3
		<b>7</b>	<b>7</b>

**Fourth Year**

Fall	Credits	Spring	Credits
NAV SCI 475		1 NAV SCI 476	1
NAV SCI 401		3 NAV SCI 402	3
		<b>4</b>	<b>4</b>

**Total Credits 55-66**

**MARINE SCHOLARSHIP/COLLEGE PROGRAMMER**

**First Year**

Fall	Credits	Spring	Credits
NAV SCI 175		1 NAV SCI 176	1
NAV SCI 101		2 HISTORY 428 (in place of NAV SCI 102)	3-4
English 1		3 English 2	3
		<b>6</b>	<b>7-8</b>

**Second Year**

Fall	Credits	Spring	Credits
NAV SCI 275		1 NAV SCI 276	1
NAV SCI 201		3 NAV SCI 350 or 351	3
		<b>4</b>	<b>4</b>

**Third Year**

Fall	Credits	Spring	Credits
NAV SCI 375		1 NAV SCI 376	1
Amer Mil History/ National Security Policy		3 NAV SCI 350 or 351	3
		<b>4</b>	<b>4</b>

**Fourth Year**

Fall	Credits	Spring	Credits
NAV SCI 475		1 NAV SCI 476	1
		NAV SCI 402	3
		<b>1</b>	<b>4</b>

**Total Credits 34-35**

**ADVISING AND CAREERS**

Naval Science BNS students should meet with the Navy ROTC for advising:  
1610 University Avenue Madison, WI 53726;  
608-262-3794; nrotc.aviation@wisc.edu

**PEOPLE**

**Naval Science**—Professor, CAPT Barnett; Associate Professor, CDR Choquette; Assistant Professors LT Hippe, LT Fox, Gunnery Sgt Smith,

and Marine Capt. Hoffman. The assistant professors act as undergraduate advisors and may be contacted through the department office.

**TECHNICAL COMMUNICATION, CERTIFICATE**

The Technical Communication Certificate (TCC) has established itself as a program that meets industry and government agencies' demands for students with skills as communicators and for communication specialists. Because employers value well-developed communication skills, TCC courses will enhance success in co-op/intern positions and post-graduation careers. TCC graduates overwhelmingly confirm not only that the certificate gave them an edge over other candidates during the recruitment process, but also that the communication knowledge, skills, and attitudes they acquired while in the program helped them succeed in their jobs and helped prepare them for the diverse communication and management tasks in today's multifunctional team environments.

The Technical Communication Certificate, housed in the College of Engineering, complements all undergraduate degrees, but is especially designed to fit in well with an engineering degree. TCC students gain experience in career-applicable skills by

- Receiving education in principles and processes for communicating about technical subjects (including problem solving methods, audience analysis, rhetorical analysis, conventions of format, and usability testing).
- Gaining education in the fundamentals of written, oral, and visual communication (including organization, structure, style, mechanics, format, and delivery).
- Learning effective interpersonal communication and management skills (including teamwork, interviewing, leading and facilitating groups, project management, and international communication).
- Gaining opportunities to research and think analytically about contemporary issues and to consider ethical issues.
- Using current technology to encourage effective communication in a variety of environments (including use of the web, distance communication, electronic publishing, group software, and layout and presentation software).

While the certificate is designed especially for engineering students, students from other fields sometimes seek out the program to enhance their career options. Students who complete the certificate will have the notation "Technical Communication Certificate" added to their transcripts.

Students in the program often take on leadership roles in other college or campus student organizations and projects, further developing their communication, team, and management skills.

**HOW TO GET IN**

Undergraduates who would like to enroll in the Technical Communication Certificate may download the TCC Application form (PDF) (<https://tc.engr.wisc.edu/certificate/applying-to-the-technical-communication-certificate/>). Email the completed TCC Application along with a PDF of your current DARS report to Laura Grossenbacher, Director of the Tech

Comm Program, at [Irgrossenbac@wisc.edu](mailto:Irgrossenbac@wisc.edu). Graduate students and non-degree-seeking students cannot enroll in the TCC.

### PREREQUISITES FOR ADMISSION TO THE TCC PROGRAM

- A grade of at least B in Communication A or equivalent course or AP English credits (score of at least 4 out of 5).
- Four courses (12-credit minimum) in science and/or engineering, including at least one intermediate-level (minimum 200-level) course.
- Three courses (9-credit minimum) in humanities, social sciences, and/or foreign language.
- Overall GPA of at least 2.5.

Applications are accepted throughout the semester, though students are encouraged to submit applications as early as possible so they have ample time to plan their coursework. The program will notify all new admissions via email.

## REQUIREMENTS

To graduate with the certificate in technical communication, students must complete at least 21 credits, with a minimum of 6 credits in technical proficiency courses and a minimum of 15 credits in both technical and non-technical communication courses.

In addition to course requirements, students must achieve at least a B in the required Engineering Communication (INTEREGR 397) and the Technical Communications Internship (E P D 398). All students must complete the program within five years from their application date. Students are encouraged to meet with their advisor regularly to ensure they are on track to graduate with their certificate. Students cannot count courses completed on a pass/fail basis toward the certificate.

Substitution of courses substantively equivalent to those listed will be considered by the Technical Communication Curriculum Committee. Students must submit requests for substitution with supporting material before beginning the course.

### PREREQUISITES

Code	Title	Credits
	A grade of at least B in Communication A or equivalent course or AP English credits (score of at least 4 or 5)	
	Select four courses (12-credit minimum) in science and/or engineering, including at least one intermediate-level (minimum 200-level) course	
	Select three courses (9-credit minimum) in liberal studies including a foreign language	
	Overall GPA of at least 2.5	

### TECHNICAL PROFICIENCY

Code	Title	Credits
	Select a minimum of one course each from two areas:	6
	Computer Science	
	Management/Economics/Business	
<b>Total Credits</b>		<b>6</b>

#### Computer Science

Code	Title	Credits
CBE 255	Introduction to Chemical Process Modeling	3

CIV ENGR/G L E 291	Problem Solving Using Computer Tools	4
COMP SCI 200	Programming I	3
COMP SCI 220	Data Science Programming I	4
COMP SCI 300	Programming II	3
COMP SCI 320	Data Science Programming II	4
INFO SYS 371	Technology of Computer-Based Business Systems	3
LSC 532	Web Design for the Sciences	3

#### Management/Economics/Business

Code	Title	Credits
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
CIV ENGR 491	Legal Aspects of Engineering	3
CIV ENGR 492	Integrated Project Estimating and Scheduling	3
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3
CIV ENGR 498	Construction Project Management	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
ECON 467	International Industrial Organizations	3-4
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
GEN BUS 365	Contemporary Topics	1-3
INTL BUS 200	International Business	3
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	3
ISY E 313	Engineering Economic Analysis	3
ISY E/PSYCH 349	Introduction to Human Factors	3
ISY E 476	Industrial Engineering Projects	3
ISY E 515	Engineering Management of Continuous Process Improvement	3
ISY E 575	Introduction to Quality Engineering	3
MARKETNG 300	Marketing Management	3
MARKETNG 310	Marketing Research	3
MARKETNG 415	Social Creative Marketing	3
MARKETNG/ INTL BUS 420	Global Marketing Strategy	3
M E 549	Product Design	3
M H R 300	Managing Organizations	3
M H R 365	Contemporary Topics	1-3
M H R 420	Managing Change and Organizational Effectiveness	3
M H R 612	Labor-Management Relations	3
N E 571	Economic and Environmental Aspects of Nuclear Energy	3

OTM 365	Contemporary Topics	1-3
R M I 300	Principles of Risk Management	3

## TECHNICAL COMMUNICATION REQUIRED COURSES

Code	Title	Credits
INTEREGR 397	Engineering Communication	3
E P D 398	Technical Communications Internship (Required. This course, completed in conjunction with the Technical Communication Internship, can be repeated for an additional credit, which will count toward elective courses in technical communication from EPD. Also, this course can be substituted with a special project completed as an Independent Study course. Only offered in spring.)	1
<b>Total Credits</b>		<b>4</b>

## TECHNICAL COMMUNICATION ELECTIVES

Code	Title	Credits
Select a minimum of 8 credits <sup>1</sup>		8
<b>Total Credits</b>		<b>8</b>

### Elective Courses in Communication

Code	Title	Credits
E P D 275	Technical Presentations	2
M E 231	Geometric Modeling for Design and Manufacturing	3
I SY E 515	Engineering Management of Continuous Process Improvement	3
BSE 270	Introduction to Computer Aided Design	3
BSE 375	Special Topics	1-4
CBE 324	Transport Phenomena Lab	3
CBE 424	Operations and Process Laboratory	5
CIV ENGR 159	Civil Engineering Graphics	2
COM ARTS 260	Communication and Human Behavior	3
COM ARTS 262	Theory and Practice of Argumentation and Debate	3
COM ARTS 266	Theory and Practice of Group Discussion	3
COM ARTS 272	Introduction to Interpersonal Communication	3
COM ARTS 355	Introduction to Media Production	4
COM ARTS 368	Theory and Practice of Persuasion	3
COM ARTS 562	Theories of Deliberation and Controversy	3
COM ARTS 575	Communication in Complex Organizations	3
ENGL 201	Intermediate Composition	3
ENGL 315	English Phonology	3
ENGL 318	Second Language Acquisition	3

GEN BUS 360	Workplace Writing and Communication	3
HISTORY 201	The Historian's Craft	3-4
HIST SCI 201	The Origins of Scientific Thought	3
HIST SCI 202	The Making of Modern Science	3
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	3
JOURN 425	Video Journalism	4
JOURN 447	Strategic Media Planning	4
LSC 515	Social Marketing Campaigns in Science, Health and the Environment	3
JOURN/POLI SCI/URB R PL 373	Introduction to Survey Research	3
JOURN 563	Law of Mass Communication	4
L I S 601	Information: Perspectives and Contexts	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3
LSC 350	Visualizing Science and Technology	3
LSC 515	Social Marketing Campaigns in Science, Health and the Environment	3
M H R 365	Contemporary Topics	1-3
M H R 401	The Management of Teams	3
PHILOS 210	Reason in Communication	3-4
PHILOS 241	Introductory Ethics	3-4
PHILOS 243	Ethics in Business	3-4
PHILOS/ENVR ST 441	Environmental Ethics	3-4
PSYCH 456	Social Psychology	3-4
PSYCH/I SY E 653	Organization and Job Design	3
SOC 535	Talk and Social Interaction	3

Independent Study courses by instructor approval only <sup>2</sup>

**1**

Note: These E P D courses **do NOT count toward** the TCC:

- E P D 654 Teaching in Science and Engineering
- E P D 690 Core Competency in Sustainability
- E P D 690 ATE Powertrain
- E P D 690 Essential Skills for Engineering Productivity

**2**

Special credits in Technical Communication include E P D 499 Senior Independent Study.

## SENIOR DESIGN OR CAPSTONE

Code	Title	Credits
Select one of the following:		3-4
B M E 400	Capstone Design Course in Biomedical Engineering	
B M E 402	Biomedical Engineering Capstone Design II	
BSE 508	Biological Systems Engineering Design Practicum I	
BSE 509	Biological Systems Engineering Design Practicum II	

CBE 424	Operations and Process Laboratory
CBE 450	Process Design
CIV ENGR 578	Senior Capstone Design
E C E 453	Embedded Microprocessor System Design
E C E 491	Senior Design Project
E M A 469	Design Problems in Engineering
G L E 479	Geological Engineering Design
I S Y E 476	Industrial Engineering Projects
I S Y E 450	Industrial Engineering Design II
M E 349	Engineering Design Projects
M E 351	Interdisciplinary Experiential Design Projects I
M E 352	Interdisciplinary Experiential Design Projects II
M S & E 470	Capstone Project I
M S & E 471	Capstone Project II
N E 412	Nuclear Reactor Design
N E 571	Economic and Environmental Aspects of Nuclear Energy

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Understand and apply principles and processes for communicating about technical subjects to diverse audiences.
2. Understand and apply fundamentals of written, oral, and visual communication.
3. Apply improved skills in interpersonal communication, teamwork, and management.
4. Research, identify, and think analytically about social, global, economic, political, environmental, and ethical issues as they impact technical projects or engineering work.
5. Use current technology to communicate effectively in a variety of formats and environments.
6. Engage in real world experiences through communication internships and guest lectures.

## INDUSTRIAL AND SYSTEMS ENGINEERING

The first bachelor of science in industrial engineering at the University of Wisconsin–Madison was awarded in 1972. Since that time the demand for industrial engineers has grown dramatically for one chief reason: the need for organizations to raise their level of productivity through thoughtful, systematic applications.

Becoming an industrial engineer (IE) places one in an exciting field of engineering that focuses on productivity improvement worldwide. It is

a field that deals as much with human aspects of work as with today's sophisticated tools of work.

What sets industrial engineering apart from other engineering disciplines is its broader scope. An IE deals with people as well as things. The industrial engineer applies problem-solving techniques in almost every kind of industry, business, or institution. There are IEs in banks, hospitals, government at all levels, transportation, construction, processing, social services, electronics, facilities design, manufacturing, and warehousing.

An IE looks at the "big picture" of what makes society perform best—the right combination of human resources, natural resources, and human-made structures and equipment. An IE bridges the gap between management and operations, dealing with and motivating people as well as determining what tools should be used and how they should be used. Industrial engineering is concerned with performance measures and standards, research of new products and product applications, ways to improve use of scarce resources, and many other problem-solving adventures.

Because industrial engineering serves a broad cross-section of business, industry and institutions, the IE's work environment varies from office to plant to field. Choices can be made even after the IE begins his or her career. Few other vocations offer a graduating student such a wide selection of places to work or kind of work to perform. Need for industrial engineers makes this profession particularly attractive from the financial standpoint. Beginning salaries rank in the top group of high-paying engineering disciplines, and fast advancement is not unusual.

In the industrial and systems engineering department at UW–Madison, the course curriculum is set up to provide a diversified background and at the same time allow choices according to individual interests. Specialized coursework might be categorized in four main areas:

- Engineering Analytics and Operations Research
- Healthcare Systems Engineering
- Human Factors and Ergonomics
- Manufacturing and Supply Chain Management

Although there is no sub major within IE, it is possible to achieve a degree of specialization through choice of a focus area. Courses focusing on teams and design projects prepare students to succeed in the workplace.

### INDUSTRIAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

During the first several years following graduation from the program, a graduate from UW–Madison with a B.S. in industrial engineering would be expected to:

1. Demonstrate competence in the professional practice of industrial engineering.
2. Demonstrate industrial engineering skills needed as a foundation for leadership in a career and the profession.
3. Act with professional and ethical responsibility, fostering an inclusive work environment, and appreciate the impact of proposed solutions to a global and/or societal context.

### DEGREES/MAJORS/CERTIFICATES

- Engineering Data Analytics, Certificate (p. 311)
- Industrial Engineering, B.S. (p. 312)

## PEOPLE

### PROFESSORS

Laura Albert (Chair)  
Oguzhan Alagoz  
John D. Lee  
Jeffrey Linderoth  
Kaibo Liu  
James Luedtke  
Ranjana Mehta  
Robert Radwin  
Raj Veeramani

Doug Wiegmann  
Shiyu Zhou

### ASSOCIATE PROFESSORS

Alberto Del Pia

### ASSISTANT PROFESSORS

Justin J. Boutilier  
Tony McDonald  
Carla Michini  
Yonatan Mintz  
Hantang Qin  
Xin Wang  
Qiaomin Xie  
Gabriel Zayas-Caban

### TEACHING PROFESSORS

Amanda Smith

### TEACHING FACULTY

Hannah Silber  
Sinan Tas  
Tina Xu  
Charlene Yauch

### LECTURERS

Terry Mann

### UNDERGRADUATE ADVISORS

Michele Crandell  
Missy Moreau

### GRADUATE PROGRAM COORDINATOR

Pam Peterson

See also Industrial and Systems Engineering Faculty Directory (<http://directory.engr.wisc.edu/ie/faculty/>).

## ENGINEERING DATA ANALYTICS, CERTIFICATE

This certificate is designed to enhance the skills of engineering students in the field of Data Analytics, which is in high demand across all engineering fields. Students may choose from a wide variety of courses from each of the four main areas: Foundations of Data Analytics, Applications of Data Analytics, Data Science, and Machine Learning. The culminating course in the program focuses on ethical issues in Data Analytics and provides

students with principled solutions to address these modern societal challenges.

The program is open to any degree-seeking undergraduate engineering student with a plan of study that fulfills the certificate requirements. Applications can be submitted at any time, but students are encouraged to apply early to ensure a smooth and successful completion of the program.

## HOW TO GET IN

All current undergraduate students in the College of Engineering are eligible to complete the Certificate in Engineering Data Analytics. Students should meet with the Certificate Advisor to discuss their intention to pursue the certificate and submit an online declaration form: <https://engineering.wisc.edu/programs/certificates/engineering-data-analytics/declaration> (<https://engineering.wisc.edu/programs/certificates/engineering-data-analytics/declaration/>).

Students declared in the Certificate in Data Science are not eligible to declare the Certificate in Engineering Data Analytics.

## REQUIREMENTS

Select one course from each area. The ethics course must be taken after the other four courses are completed.

Code	Title	Credits
	<b>Foundations of Data Analytics</b>	<b>3</b>
	<b>Applications of Data Analytics</b>	<b>3-4</b>
	<b>Data Science</b>	<b>3</b>
	<b>Machine Learning</b>	<b>3</b>
	<b>Ethics (Complete last)</b>	<b>3</b>
I SY E/E C E 570	Ethics of Data for Engineers	
	<b>Total Credits</b>	<b>15</b>

### FOUNDATIONS OF DATA ANALYTICS

Code	Title	Credits
E C E 203	Signals, Information, and Computation	3
E C E 204	Data Science & Engineering	3
I SY E 210	Introduction to Industrial Statistics	3
I SY E 312	Data Management and Analysis for Industrial Engineers	3
E C E 331	Introduction to Random Signal Analysis and Statistics	3
I SY E 412	Fundamentals of Industrial Data Analytics	3

### APPLICATIONS OF DATA ANALYTICS

Code	Title	Credits
E C E 334	State Space Systems Analysis	3
M S & E 401	Special Topics in Materials Science and Engineering (Topic: Data Science in Materials)	3
E C E 431	Digital Signal Processing	3
E C E 432	Digital Signal Processing Laboratory	3
E C E 454	Mobile Computing Laboratory	4

ISY E/M E 512	Inspection, Quality Control and Reliability	3
ISY E 517	Decision Making in Health Care	3
E C E/ COMP SCI 533	Image Processing	3
ISY E 575	Introduction to Quality Engineering	3

## DATA SCIENCE

Code	Title	Credits
ISY E 516	Introduction to Decision Analysis	3
E C E/COMP SCI/ ISY E 524	Introduction to Optimization	3
E C E/ COMP SCI 561	Probability and Information Theory in Machine Learning	3
ISY E 620	Simulation Modeling and Analysis	3
ISY E 624	Stochastic Modeling Techniques	3
ISY E/MATH/OTM/ STAT 632	Introduction to Stochastic Processes	3

## MACHINE LEARNING

Code	Title	Credits
E C E/COMP SCI/ M E 532	Matrix Methods in Machine Learning	3
E C E/COMP SCI/ M E 539	Introduction to Artificial Neural Networks	3
ISY E 521	Machine Learning in Action for Industrial Engineers	3
ISY E 562	Human Factors of Data Science and Machine Learning	3

## ETHICS

Code	Title	Credits
ISY E/E C E 570	Ethics of Data for Engineers	3

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Apply tools and methods to understand, analyze, and interpret data from a variety of sources
2. Apply tools and methods to draw conclusions from and make decisions based on analysis of data
3. Articulate the potential impact of a data-driven decision in the context of ethics, fairness, and equity
4. Identify how engineers apply data analytics in practice using machine learning, data science, and other fundamental tools of data analytics

## INDUSTRIAL ENGINEERING, B.S.

The first bachelor of science in industrial engineering at the University of Wisconsin–Madison was awarded in 1972. Since that time the demand for industrial engineers has grown dramatically for one chief reason: the need for organizations to raise their level of productivity through thoughtful, systematic applications.

Becoming an industrial engineer (IE) places one in an exciting field of engineering that focuses on productivity improvement worldwide. It is a field that deals as much with human aspects of work as with today's sophisticated tools of work.

What sets industrial engineering apart from other engineering disciplines is its broader scope. An IE deals with people as well as things. The industrial engineer applies problem-solving techniques in almost every kind of industry, business, or institution. There are IEs in banks, hospitals, government at all levels, transportation, construction, processing, social services, electronics, facilities design, manufacturing, and warehousing.

An IE looks at the "big picture" of what makes society perform best—the right combination of human resources, natural resources, and human-made structures and equipment. An IE bridges the gap between management and operations, dealing with and motivating people as well as determining what tools should be used and how they should be used. Industrial engineering is concerned with performance measures and standards, research of new products and product applications, ways to improve use of scarce resources, and many other problem-solving adventures.

Because industrial engineering serves a broad cross-section of business, industry and institutions, the IE's work environment varies from office to plant to field. Choices can be made even after the IE begins his or her career. Few other vocations offer a graduating student such a wide selection of places to work or kind of work to perform. Need for industrial engineers makes this profession particularly attractive from the financial standpoint. Beginning salaries rank in the top group of high-paying engineering disciplines, and fast advancement is not unusual.

In the industrial and systems engineering department at UW–Madison, the course curriculum is set up to provide a diversified background and at the same time allow choices according to individual interests. Specialized coursework might be categorized in four main areas:

- Engineering Analytics and Operations Research
- Healthcare Systems Engineering
- Human Factors and Ergonomics
- Manufacturing and Supply Chain Management

Although there is no sub major within IE, it is possible to achieve a degree of specialization through choice of a focus area. Courses focusing on teams and design projects prepare students to succeed in the workplace.

## INDUSTRIAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

During the first several years following graduation from the program, a graduate from UW–Madison with a B.S. in industrial engineering would be expected to:



1. Demonstrate competence in the professional practice of industrial engineering.
2. Demonstrate industrial engineering skills needed as a foundation for leadership in a career and the profession.
3. Act with professional and ethical responsibility, fostering an inclusive work environment, and appreciate the impact of proposed solutions to a global and/or societal context.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer

Coordinator in the College of Engineering: [ugtransfer@enr.wisc.edu](mailto:ugtransfer@enr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

**The following curriculum applies to students admitted to the Industrial Engineering, BS, degree program beginning in Fall 2020 or later.** Required courses and electives satisfying the Mathematics and Basic Science, Computer Sciences, IE Focus Area, and General Education Communication requirements are indicated. For Liberal Studies Electives refer to the College of Engineering Liberal Studies Guidelines.

Code	Title	Credits
	Mathematics and Basic Science	30-31
	Probability and Statistics	6
	Computer Sciences	7-8
	Required I SY E Courses	28
	ISYE Focus Area Technical Electives	18
	Professional Electives, Communication Skills, and Liberal Studies	27

Free Electives	4
<b>Total Credits</b>	<b>120-122</b>

## MATHEMATICS AND BASIC SCIENCE

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
Select one of the following: <sup>1</sup>		5-6
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
E M A 201 & E M A 202	Statics and Dynamics	
E M A 201 & M E 240	Statics and Dynamics	

**Choose 9 credits from the following list:<sup>1</sup>** **9**

### Basic Science

ANAT&PHY 335	Physiology	
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
or ZOOLOGY 153	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
CHEM 103	General Chemistry I <sup>2</sup>	
or CHEM 109	Advanced General Chemistry	
or CHEM 115	Chemical Principles I	
CHEM 104	General Chemistry II	
CHEM 116	Chemical Principles II	
CHEM 311	Chemistry Across the Periodic Table	
CHEM 327	Fundamentals of Analytical Science	
or CHEM 329	Fundamentals of Analytical Science	
CHEM 341	Elementary Organic Chemistry	
CHEM 342	Elementary Organic Chemistry Laboratory	
CHEM 343	Organic Chemistry I	
CHEM 344	Introductory Organic Chemistry Laboratory	
CHEM 345	Organic Chemistry II	
CHEM 346	Intermediate Organic Chemistry Laboratory	
MICROBIO 101	General Microbiology	
MICROBIO 102	General Microbiology Laboratory	
PHYSICS 202	General Physics	
or PHYSICS 208	General Physics	
or PHYSICS 248A	Modern Introduction to Physics	
PHYSICS 205	Modern Physics for Engineers	
or PHYSICS 241	Introduction to Modern Physics	
or PHYSICS 249A	Modern Introduction to Physics	

### Mathematics

MATH/ COMP SCI 240	Introduction to Discrete Mathematics	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 421	The Theory of Single Variable Calculus	
MATH 441	Introduction to Modern Algebra	
MATH 443	Applied Linear Algebra	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
MATH 521	Analysis I	
MATH 522	Analysis II	

**Total Credits** **30-31**

**1**

If E M A 201 and E M A 202 or M E 240 are used to fulfill the PHYSICS requirement, 5 additional credits of math or basic science will be required

**2**

Credit will not be given for both CHEM 103 and CHEM 109 to fulfill Mathematics and Basic Science requirements.

## PROBABILITY AND STATISTICS

Code	Title	Credits
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I	
ISY E 210	Introduction to Industrial Statistics	3
or STAT/ MATH 310	Introduction to Probability and Mathematical Statistics II	
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	

**Total Credits** **6**

## COMPUTER SCIENCES

Code	Title	Credits
COMP SCI 220	Data Science Programming I	4
Select one of the following:		3-4
COMP SCI 200	Programming I	
COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	
COMP SCI 400	Programming III	
COMP SCI 412	Introduction to Numerical Methods	

**Total Credits** **7-8**

## REQUIRED ISY E COURSES

Code	Title	Credits
ISY E 191	The Practice of Industrial Engineering	2
ISY E 312	Data Management and Analysis for Industrial Engineers	3
ISY E 313	Engineering Economic Analysis	3
ISY E 315	Production Planning and Control	3

ISY E 320	Simulation and Probabilistic Modeling	3
ISY E 321	Simulation Modeling Laboratory	1
ISY E 323	Operations Research–Deterministic Modeling	3
ISY E 348	Introduction to Human Factors Engineering Laboratory	1
ISY E/PSYCH 349	Introduction to Human Factors	3
ISY E 350	Industrial Engineering Design I	3
ISY E 450	Industrial Engineering Design II	3
<b>Total Credits</b>		<b>28</b>

## ISY E FOCUS AREA TECHNICAL ELECTIVES

Choose 1 of the following 6 focus areas.

### Engineering Analytics and Operations Research

Code	Title	Credits
<i>Choose at least 3:</i> 9		
ISY E 412	Fundamentals of Industrial Data Analytics	
ISY E/COMP SCI/ MATH 425	Introduction to Combinatorial Optimization	
ISY E/CIV ENGR/ N E 460	Uncertainty Analysis for Engineers	
ISY E 516	Introduction to Decision Analysis	
ISY E 521	Machine Learning in Action for Industrial Engineers	
ISY E/COMP SCI/ E C E 524	Introduction to Optimization	
ISY E/COMP SCI/ MATH/STAT 525	Linear Optimization	
ISY E/ COMP SCI 526	Advanced Linear Programming	
ISY E/COMP SCI/ M E 558	Introduction to Computational Geometry	
ISY E/N E 574	Methods for Probabilistic Risk Analysis of Nuclear Power Plants	
ISY E 603	Special Topics in Engineering Analytics and Operations Research	
ISY E 620	Simulation Modeling and Analysis	
ISY E 624	Stochastic Modeling Techniques	
ISY E/MATH/ OTM/STAT 632	Introduction to Stochastic Processes	
One elective ISY E course other than those listed in the Engineering Analytics and Operations Research area		3
Additional elective ISY E courses in any area		6
<b>Total Credits</b>		<b>18</b>

### Healthcare Systems Engineering

Code	Title	Credits
<i>Choose at least 3:</i> 9		
ISY E 417	Health Systems Engineering	
ISY E 517	Decision Making in Health Care	
ISY E 557	Human Factors Engineering for Healthcare Systems	

ISY E 555	Human Performance and Accident Causation	
ISY E/ MED PHYS 559	Patient Safety and Error Reduction in Healthcare	
ISY E 606	Special Topics in Healthcare Systems Engineering	
ISY E/ PHARMACY 608	Safety and Quality in the Medication Use System	
ISY E/B M I 617	Health Information Systems	
One elective ISY E course other than those listed in the Healthcare Systems Engineering area		3
Additional elective ISY E courses in any area		6
<b>Total Credits</b>		<b>18</b>

### Human Factors and Ergonomics

Code	Title	Credits
<i>Choose at least 3:</i> 9		
ISY E/COMP SCI/ DS 518	Wearable Technology	
ISY E/ PSYCH 549	Human Factors Engineering	
ISY E 552	Human Factors Engineering Design and Evaluation	
ISY E 555	Human Performance and Accident Causation	
ISY E 557	Human Factors Engineering for Healthcare Systems	
ISY E 562	Human Factors of Data Science and Machine Learning	
ISY E/B M E 564	Occupational Ergonomics and Biomechanics	
ISY E 602	Special Topics in Human Factors	
ISY E/ PSYCH 653	Organization and Job Design	
ISY E 649	Interactive Data Analytics	
ISY E/B M E 662	Design and Human Disability and Aging	
One elective ISY E course other than those listed in the Human Factors and Ergonomics area		3
Additional elective ISY E courses in any area		6
<b>Total Credits</b>		<b>18</b>

### Manufacturing and Supply Chain Management

Code	Title	Credits
<i>Choose at least 3:</i> 9		
ISY E 415	Introduction to Manufacturing Systems, Design and Analysis	
ISY E/M E 510	Facilities Planning	
ISY E/M E 512	Inspection, Quality Control and Reliability	
ISY E 515	Engineering Management of Continuous Process Improvement	
ISY E 520	Quality Assurance Systems	
ISY E 575	Introduction to Quality Engineering	
ISY E 604	Special Topics in Manufacturing and Supply Chain Management	

I SY E 605	Computer Integrated Manufacturing	
I SY E 612	Information Sensing and Analysis for Manufacturing Processes	
I SY E 615	Production Systems Control	
I SY E/M E 641	Design and Analysis of Manufacturing Systems	
I SY E/M E 643	Performance Analysis of Manufacturing Systems	
I SY E 645	Engineering Models for Supply Chains	
One elective I SY E course other than those listed in the Manufacturing and Supply Chain Management area		3
Additional elective I SY E courses in any area		6
<b>Total Credits</b>		<b>18</b>

### Distributed Focus Area

Code	Title	Credits
<b>Total credits in Distributed Focus Area:</b>		<b>18</b>

Choose 6 courses in at least 3 of the 4 areas listed above (Engineering Analytics and Operations Research, Healthcare Systems Engineering, Human Factors and Ergonomics, and Manufacturing and Supply Chain Management)

### Honors in Research Focus Area

Code	Title	Credits
<b>Total credits in Honors in Research Focus Area:</b>		<b>20</b>
I SY E 468	Introduction to Industrial Engineering Research	1
I SY E 478	Research and Beyond in Industrial Engineering	1
I SY E 489	Honors in Research	3

Choose 5 courses in at least 2 of the 4 areas listed above (Engineering Analytics and Operations Research, Healthcare Systems Engineering, Human Factors and Ergonomics, and Manufacturing and Supply Chain Management)

## PROFESSIONAL ELECTIVES, COMMUNICATION SKILLS, AND LIBERAL STUDIES

Code	Title	Credits
<b>Professional Electives<sup>1</sup></b>		<b>6</b>

Choose 6 credits from:

College of Engineering courses numbered 200 or higher

Biological, natural, social, or physical sciences; humanities; or literature at the Intermediate or Advanced level

At most 5 credits of I SY E 699 and/or I SY E 1 (independent study courses from other engineering subject areas can also be used)

School of Business courses numbered 200 or higher (as well as ACCT I S 100)

<b>Communication Skills</b>		<b>6</b>
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	

or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
INTEREGR 397	Engineering Communication	3
<b>Liberal Studies</b>		<b>15</b>
Liberal Studies Electives (according to CoE requirements) (p. 244)		11
ECON 101	Principles of Microeconomics	4
<b>Total Credits</b>		<b>27</b>

1

Professional electives may not include STAT 301 Introduction to Statistical Methods or transfer/test math elective credits for calculus.

## FREE ELECTIVES

Code	Title	Credits
4 credits of Free Electives		4
<b>Total Credits</b>		<b>4</b>

## MINIMUM REQUIRED CREDITS: 120

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. Communicate effectively with a range of audiences
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. Acquire and apply new knowledge as needed, using appropriate learning strategies
8. Recognize, describe, predict and analyze systems behavior
9. Understand physiological, cognitive, and sociotechnical aspects of humans as components in complex systems design
10. Apply the techniques, skills, and modern engineering tools necessary for engineering practice, such as quality engineering, optimization, simulation, and project management

Math and Basic Science Elective	3 Liberal Studies Elective	3
<b>15</b>		<b>15</b>

**Total Credits 120-121**

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

- Laura Albert (Chair)
- Oguzhan Alagoz
- John D. Lee
- Jeffrey Linderoth
- Kaibo Liu
- James Luedtke
- Ranjana Mehta
- Robert Radwin
- Raj Veeramani

Doug Wiegmann  
Shiyu Zhou

### ASSOCIATE PROFESSORS

Alberto Del Pia

### ASSISTANT PROFESSORS

- Justin J. Boutilier
- Tony McDonald
- Carla Michini
- Yonatan Mintz
- Hantang Qin
- Xin Wang
- Qiaomin Xie
- Gabriel Zayas-Caban

### TEACHING PROFESSORS

Amanda Smith

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221 or 275		5 I SY E 191	2
ECON 101		4 MATH 222 or 276	4
COMP SCI 220		4 PHYSICS 201	5
Communications A		3 Liberal Studies Elective	3
<b>16</b>		<b>14</b>	

#### Second Year

Fall	Credits	Spring	Credits
I SY E 313		3 I SY E 315	3
MATH 234		4 I SY E 348	1
Liberal Studies Elective		2 I SY E/PSYCH 349	3
Computer Sciences Elective		3-4 MATH 340	3
Math and Basic Science Elective		3 Math and Basic Science Elective	3
		I SY E 210	3
<b>15-16</b>		<b>16</b>	

#### Third Year

Fall	Credits	Spring	Credits
I SY E 312		3 I SY E 320	3
I SY E 323		3 I SY E 321	1
Professional Elective		3 I SY E 350	3
STAT 311		3 INTEREGR 397	3
Liberal Studies Elective		3 I SY E Focus Area Elective	3
		Free Elective	1
<b>15</b>		<b>14</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
I SY E Focus Area Elective		3 I SY E 450	3
I SY E Focus Area Elective		3 I SY E Focus Area Elective	3
Professional Elective		3 I SY E Focus Area Elective	3
Free Elective		3 I SY E Focus Area Elective	3

## TEACHING FACULTY

Hannah Silber  
Sinan Tas  
Tina Xu  
Charlene Yauch

## LECTURERS

Terry Mann

## UNDERGRADUATE ADVISORS

Michele Crandell  
Missy Moreau

## GRADUATE PROGRAM COORDINATOR

Pam Peterson

See also Industrial and Systems Engineering Faculty Directory (<http://directory.engr.wisc.edu/ie/faculty/>).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Industrial and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## MATERIALS SCIENCE AND ENGINEERING

Advances in technology are closely linked to the materials that people can design, manipulate, and produce. How we live is connected to our abilities to process materials and manufacture products; to develop and design nontraditional as well as traditional materials for an increasingly broad range of industries; and to research and develop high-performance materials for practical applications in coming decades. The materials that change the way we live may be the next generation of superalloys for applications in extreme conditions such as high-temperature or highly corrosive environments; new materials for application in energy generation, storage, and transmission; organic and inorganic materials for use and integration in applications ranging from electronics to medicine; or new materials systems yet to be developed for the ever-increasing needs of our society. Materials experts find employment in a broad range of industries and may practice experimental, computational, or theoretical materials science and engineering, or all of these in combination. The undergraduate curriculum leads to the Bachelor of Science Degree in Materials Science and Engineering. The curriculum is designed to prepare students with the foundation needed to thrive in broad and rapidly changing industries that are based on materials. It also provides substantial flexibility, through electives and with the assistance of a materials science and engineering faculty advisor, for tailoring to students' specific interests within the materials field. Science, engineering, teamwork, broad thinking, and communication skills all are integral parts of

the curriculum. Graduates are well prepared for careers in industry or for graduate studies.

## DEGREES/MAJORS/CERTIFICATES

- Materials Science and Engineering, B.S. (p. 318)

## PEOPLE

### PROFESSORS

Izabela Szlufarska (Chair)  
Michael S. Arnold  
Susan Babcock  
Chang-beom Eom  
Paul Evans  
Padma Gopalan  
Sindo Kou  
Roderic Lakes  
Dane Morgan  
John Perepezko  
Ian Robertson  
Kumar Sridharan  
Donald Stone  
Dan J. Thoma  
Paul Voyles  
Xudong Wang

### ASSOCIATE PROFESSORS

Jason Kawasaki

### ASSISTANT PROFESSORS

Dawei Feng  
Jiamian Hu  
Fang Liu  
Hyunseok Oh  
Daniel Rhodes  
Jun Xiao

### ASSISTANT TEACHING PROFESSORS

Franklin Hobbs

See also Materials Science and Engineering Faculty Directory (<https://directory.engr.wisc.edu/mse/faculty/>).

## MATERIALS SCIENCE AND ENGINEERING, B.S.

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## MATERIALS SCIENCE AND ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

**Objective 1:** Skills and Tools. Graduates will be applying the tools and skills acquired during their undergraduate experience either in post-graduate educational programs or as employees in materials-related industries.

**Objective 2:** Early Career Growth. Graduates will have experienced professional growth in their chosen post-baccalaureate pursuits, for example, through acquisition of advanced degrees or advancement in employment rank.

**Objective 3:** Professional Citizenship. Graduates will have demonstrated awareness of contemporary issues in technology and society and ethical responsibility.

**Objective 4:** Life-Long Learning: Graduates will have demonstrated a continuing commitment to learning.

## HOW TO GET IN

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The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students admitted to the materials science and engineering degree program (MS&E) in or after fall semester of 2019.

Code	Title	Credits
	Mathematics and Statistics	19
	General Science and Engineering Foundations	25-26
	MS&E Required Courses	45
	Materials Emphasis Elective Requirements	12
	Communication Skills	6
	Liberal Studies	16
	Free Electives	4-5
	<b>Total Credits</b>	<b>At least 128</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3
or MATH 320	Linear Algebra and Differential Equations	
STAT 324	Introductory Applied Statistics for Engineers	3
	<b>Total Credits</b>	<b>19</b>

## GENERAL SCIENCE AND ENGINEERING FOUNDATIONS

Code	Title	Credits
<b>Science</b>		
<i>Physics</i>		
PHYSICS 201	General Physics	5
or PHYSICS 207	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	

or PHYSICS 248	A Modern Introduction to Physics	
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### *Chemistry*

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	5
or CHEM 109	Advanced General Chemistry	

CHEM 343	Organic Chemistry I	3
or CHEM 341	Elementary Organic Chemistry	

### *Science Elective*

Select one of the following:		3
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CHEM 311	Chemistry Across the Periodic Table	
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CHEM 327	Fundamentals of Analytical Science	
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CHEM 329	Fundamentals of Analytical Science	
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CHEM 345	Organic Chemistry II	
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PHYSICS 205	Modern Physics for Engineers	
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PHYSICS/ E C E 235	Introduction to Solid State Electronics	
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PHYSICS 241	Introduction to Modern Physics	
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ZOOLOGY/ BIOLOGY 101	Animal Biology	
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ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
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ZOOLOGY 153	Introductory Biology	
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### **Engineering Foundation**

#### *Introduction to Engineering*

M S & E 260	Materials Experience (or another CoE Intro to Engineering course)	2
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#### *Computer Sciences*

Select one of the following (COMP SCI 220 preferred):		3-4
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COMP SCI 220	Data Science Programming I	
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COMP SCI 200	Programming I	
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COMP SCI 300	Programming II	
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COMP SCI 320	Data Science Programming II	
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COMP SCI 400	Programming III	
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<b>Total Credits</b>		<b>25-26</b>
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## MATERIALS SCIENCE AND ENGINEERING REQUIRED COURSES

Code	Title	Credits
M S & E 330	Thermodynamics of Materials	4
M S & E 331	Transport Phenomena in Materials	3
M S & E 332	Macroprocessing of Materials	3
M S & E 333	Microprocessing of Materials	3
M S & E 351	Materials Science--Structure and Property Relations in Solids	3
M S & E 352	Materials Science--Transformation of Solids	3
M S & E 360	Materials Laboratory I	2
M S & E 361	Materials Laboratory II	2
M S & E 362	Materials Laboratory III	3
M S & E/CHEM 421	Polymeric Materials	3
M S & E 441	Deformation of Solids	3
M S & E 451	Introduction to Ceramic Materials	3



M S & E 456	Electronic, Optical, and Magnetic Properties of Materials	3
M S & E 460	Introduction to Computational Materials Science and Engineering	3
M S & E 470	Capstone Project I	1
M S & E 471	Capstone Project II	3

**Total Credits** **45**

## MATERIALS SCIENCE AND ENGINEERING EMPHASIS ELECTIVES

Code	Title	Credits
Select 6 credits from: M S & E courses numbered 400 or above, B M E/PHM SCI 430, M E 417, M E 418, or M E 419 <sup>1</sup>		6
Select 6 credits of select engineering, science and math/statistics coursework in consultation with an M S & E faculty advisor <sup>2</sup>		6
<b>Total Credits</b>		<b>12</b>

1

M S & E 699 Independent Study cannot be used to fulfill this requirement.

2

Select 6 credits of coursework from M S & E courses numbered 400 or above, other engineering, Biochemistry, Chemistry, Computer Sciences, Math, Physics, Statistics, or Zoology courses numbered 300 or above, or up to 3 credits of combined M S & E 1 Cooperative Education Program and/or M S & E 699 Independent Study research credit (or from another engineering department). M S & E advisor approval of the set of selections is required. Course sets may be broad-based or concentrated in a subfield of materials science and engineering.

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>6</b>

## LIBERAL STUDIES

Complete 16 credits of liberal studies requirements (p. 244).

- Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D).
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the

total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

## FREE ELECTIVES

Select 4-5 elective credits.

- The above subject requirements can be met with 123 credits of UW courses. Students must complete 128 credits of coursework to earn the B.S. in materials science and engineering. The 4-5 elective credits may be earned by choosing elective courses that carry more credits than the requirement's minimum credit load or by taking any additional coursework of the student's choice.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 109		5 PHYSICS 201, 207, or 247	5
M S & E 260		2 Science Elective	3
Communications A		3 Liberal Studies Elective	3
Liberal Studies Elective		3	
	<b>18</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 319 or 320	3
Computer Science Elective		3 PHYSICS 202, 208, or 248	5
M S & E 330		4 M S & E 352	3
M S & E 351		3 M S & E 361	2
M S & E 360		2 Liberal Studies Elective	3
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
CHEM 341 or 343		3 M S & E 331	3
M S & E 332		3 M S & E 333	3
M S & E 362		3 STAT 324	3
M S & E 451		3 Materials Emphasis Elective	3
Liberal Studies Elective		3 Liberal Studies Elective	4
Free Elective		1	
	<b>16</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
M S & E 456		3 M S & E 471	3
M S & E 470		1 M S & E 441	3
M S & E/CHEM 421		3 M S & E 460	3
Tech Emphasis Elective		3 Materials Emphasis Elective	3
Tech Emphasis Elective		3 INTEREGR 397	3
Free Elective		3	
	<b>16</b>		<b>15</b>

**Total Credits 128**

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

## ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Izabela Szlufarska (Chair)  
 Michael S. Arnold  
 Susan Babcock  
 Chang-beom Eom  
 Paul Evans  
 Padma Gopalan  
 Sindo Kou  
 Roderic Lakes  
 Dane Morgan  
 John Perepezko  
 Ian Robertson  
 Kumar Sridharan  
 Donald Stone  
 Dan J. Thoma  
 Paul Voyles  
 Xudong Wang

### ASSOCIATE PROFESSORS

Jason Kawasaki

### ASSISTANT PROFESSORS

Dawei Feng  
 Jiamian Hu  
 Fang Liu  
 Hyunseok Oh  
 Daniel Rhodes  
 Jun Xiao

### ASSISTANT TEACHING PROFESSORS

Franklin Hobbs

See also Materials Science and Engineering Faculty Directory (<https://directory.engr.wisc.edu/mse/faculty/>).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org/>), <https://www.abet.org/>, under the commission's

General Criteria and Program Criteria for Materials (1), Metallurgical (2), Ceramics (3), and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## MECHANICAL ENGINEERING

The Department of Mechanical Engineering (ME) within the University of Wisconsin–Madison College of Engineering is the home of two undergraduate degree programs (mechanical engineering and engineering mechanics, including an option in aerospace engineering) and two graduate degree programs (mechanical engineering and engineering mechanics). The department's faculty conducts research in the areas of advanced manufacturing, biomechanics, computation & data-driven engineering, energy systems, solid & fluid mechanics, and robotics, controls, & sensing. This combination of topics fosters synergies with respect to polymers, mechatronics, aerospace, thermal, materials, additive manufacturing, and fluids. The mechanical engineering undergraduate program has been ranked in the top twelve, and the mechanical engineering graduate program has been ranked in the top seven, among public universities, according to U.S. News and World Report 2022 rankings.

## DEGREES/MAJORS/CERTIFICATES

- Engineering Mechanics, B.S. (p. 324)
- Engineering Thermal Energy Systems, Certificate (p. 335)
- Manufacturing Engineering, Certificate (p. 336)
- Mechanical Engineering, B.S. (p. 337)

## PEOPLE

### PROFESSORS

Darryl Thelen (Chair)  
 Riccardo Bonazza  
 Curt Bronkhorst  
 Wendy Crone  
 Christian Franck  
 Jaal Ghandhi  
 Sage Kokjohn  
 Roderic Lakes  
 Dan Negrut  
 Gregory F. Nellis  
 Tim Osswald  
 Frank Pfefferkorn  
 Xiaoping Qian  
 Douglas Reindl  
 David Rothamer  
 Scott T. Sanders  
 Krishnan Suresh  
 Mario F. Trujillo  
 Lih-sheng Turng  
 Fabian Waleffe

### ASSOCIATE PROFESSORS

Peter Adamczyk  
 Mark Anderson  
 Lianyi Chen  
 Melih Eriten  
 Katherine Fu  
 Tom N. Krupenkin  
 Franklin Miller  
 Sangkee Min  
 Jacob Notbohm  
 Wenxiao Pan  
 James Pikul  
 Pavana Prabhakar  
 Alejandro Roldan-Alzate  
 Michael Zinn

### ASSISTANT PROFESSORS

Joseph Andrews  
 Jennifer Franck  
 Corinne Henak  
 Eric Kazyak  
 Allison Mahvi  
 Luca Mastropasque  
 Josh Roth  
 Shiva Rudraraju  
 Stephan Rudykh  
 Ramathanan Thevamaran  
 Dakota Thompson  
 Mike Wagner  
 Michael Wehner  
 Jinlong Wu  
 Xiaobin Xiong  
 Xiangru Xu

### LECTURERS, TEACHING FACULTY, AND TEACHING PROFESSORS

Argantheal Berson  
 Glenn Bower  
 Michael Cheadle  
 Michael De Cicco  
 Jennifer Detlor  
 Randy Jackson  
 Andrew Mikkelson  
 Jason Oakley  
 Erick L. Oberstar  
 Jeffrey Roessler

See also Mechanical Engineering Faculty Directory (<https://directory.engr.wisc.edu/me/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Automatic Controls Lab  
 Automotive Lab  
 Computer-Aided Engineering (CAE) Labs  
 Energy Systems Lab  
 Engineering Design Research Lab

Experimental Mechanics Lab  
 Instrumentation Lab  
 Maker Space  
 Manufacturing Automation Lab  
 Mechanical Testing Lab  
 Mechatronics Lab  
 Polymer Engineering Center  
 Robotics and Autonomous Systems Lab  
 Senior Design Studio  
 Senior Design Hub  
 Solar Energy Lab  
 TEAM Lab

## ENGINEERING MECHANICS, B.S.

With a degree in engineering mechanics, our graduates design, measure and analyze complex structures in everything from networks of human cells and novel materials constructed at the nanoscale, to roller coasters and spacecraft. Engineering mechanics is the home of aerospace engineering (<http://guide.wisc.edu/undergraduate/engineering/engineering-physics/engineering-mechanics-bs/engineering-mechanics-aerospace-engineering-bs/>) at UW-Madison. Our curriculum prepares students for careers in a wide variety of fields, including health, clean energy, space exploration, and many more. As one of the smaller engineering majors, we focus on building a community that supports our students' success during their degree and as they launch their careers.

Engineering mechanics is the study of forces and the resulting deformations, accelerations, motions, vibrations, and other responses they cause. It forms the foundation of aerospace, mechanical or civil engineering, and is fundamental to important parts of biomedical engineering, chemical engineering, materials science, and other engineering disciplines.

Graduates of engineering mechanics apply their expertise in a variety of areas.

Wind turbines, wave power systems, transmission towers, and pipelines all respond to their environments in different ways. The safety and performance of these systems depend on a detailed understanding of how the environmental forces lead to deformations and vibrations that might cause failure. Principles of aerospace engineering are important when wind and water are involved as their flows make the analysis even more challenging, requiring sophisticated mathematical and analytical tools.

At slightly smaller scales, engineering mechanics is fundamental to the design and innovation of vehicles of every type, from sports cars to tractors to aircraft and satellites. Understanding engineering mechanics principles can provide insight to expand the way these vehicles are used while making their operation more sustainable. For some vehicles, aerospace engineering sheds light on their aerodynamic interaction with their environment, as well as the propulsion systems and complexity of controlling vehicles in flight. Landing a rover on Mars requires engineering mechanics to design the rover itself as well as the delivery system.

Innovations in engineering mechanics allow many of the products in our everyday lives to be made lighter, stronger, or cheaper by carefully understanding how they perform and when they fail due to the forces from the outside. In addition to enabling new functionality and aesthetic design, these modifications open the door for improved energy efficiency,

selection of green materials, and longer lifetimes, all with broader societal benefits.

Modern technology allows us to fabricate machines at the microscopic scale with moving parts that are only visible under a microscope. Understanding how these micromachines respond to forces from each other or their environment is important to ensure that they function correctly. At this same scale, we can build novel materials whose properties depend on the microscopic structures that define them rather than their chemical composition. Engineering mechanics allows us to design these materials with properties that are not found in nature.

Our curriculum starts with a rich physics and math base to prepare our graduates for advanced analytical and computational skills that they will apply to this range of technologies. We transition from these fundamentals to engineering problem-solving approaches that can be applied to increasingly complex systems, while students build skills in computational modeling and simulation. Students in the aerospace engineering option will take a course in the wind tunnel to refine their understanding of the basics of aerodynamics.

As one of the smaller engineering majors, we focus on building a community that supports our students' success during their degree and as they launch their careers. Many students participate in undergraduate research across one of the biggest research portfolios in the College of Engineering. An alumni network across industry sectors—from John Deere to Tesla to Boeing to SpaceX—provides support for students to find internships and launch their careers.

### ENGINEERING MECHANICS PROGRAM EDUCATIONAL OBJECTIVES

The faculty recognize that our graduates will choose to use the knowledge and skills they have acquired during their undergraduate years to pursue a wide variety of career and life goals and we encourage this diversity of paths. Regarding the Engineering Mechanics program, we initially expect graduates will begin their careers in fields that utilize their knowledge, education and training in solid mechanics, fluid mechanics and dynamics/vibration in a variety of jobs in mechanical, aerospace, manufacturing and other engineering fields.

Our educational objectives for the engineering mechanics program are to allow them to:

1. Exhibit strong performance and continuous development in problem-solving, leadership, teamwork, and communication, initially applied to engineering mechanics, and demonstrating an unwavering commitment to excellence.
2. Demonstrate continuing commitment to, and interest in, his or her training and education, as well as those of others.
3. Transition seamlessly into a professional environment and make continuing, well-informed career choices.
4. Contribute to their communities.

### HOW TO GET IN

#### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW-Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of

Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

## CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

## OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |   |
|-------------------|---|
| General Education | • Breadth–Humanities/Literature/Arts: 6 credits   |
|                   | • Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits |
|                   | • Breadth–Social Studies: 3 credits   |
|                   | • Communication Part A & Part B *   |
|                   | • Ethnic Studies *  |
|                   | • Quantitative Reasoning Part A & Part B *  |

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### ENGINEERING MECHANICS CURRICULUM

The following curriculum applies to students who entered the College of Engineering in fall 2023 or later.

#### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics <sup>1</sup>	22
	Science <sup>1</sup>	10
	Engineering Science	27
	Engineering Mechanics Core	31
	EMA Electives	9
	Technical Electives	5
	Communication Skills	8
	Liberal Studies	16
<b>Total Credits</b>		<b>128</b>

<sup>1</sup>

If the Mathematics and Statistics and the Science requirements are fulfilled with fewer than 30 credits combined, additional math/science credits will be needed to meet the math/science auxiliary credit condition.

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221 or MATH 217	Calculus and Analytic Geometry I Calculus with Algebra and Trigonometry II	5

or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4-5
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>22-23</b>

## SCIENCE

Code	Title	Credits
Select one of the following: 5-9		
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
<b>Total Credits</b>		<b>10-14</b>

## ENGINEERING SCIENCE

Code	Title	Credits
M E 201	Introduction to Mechanical Engineering	3
M E 231	Geometric Modeling for Design and Manufacturing	3
E P 271	Engineering Problem Solving I	3-4
or COMP SCI 200	Programming I	
or COMP SCI 220	Data Science Programming I	
M S & E 350	Introduction to Materials Science	3
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
or CIV ENGR 310	Fluid Mechanics	
M E 364	Elementary Heat Transfer	3
E C E 376	Electrical and Electronic Circuits	3
or PHYSICS 321	Electric Circuits and Electronics	
Computing Elective (Select One)		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods	
E M A/E P 471	Intermediate Problem Solving for Engineers	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	
<b>Total Credits</b>		<b>27-28</b>

## ENGINEERING MECHANICS CORE

Code	Title	Credits
E M A 201	Statics (with a grade of C or better)	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E M A/M E 307	Mechanics of Materials Lab	1

E M A 405	Practicum in Finite Elements	3
E M A 469	Design Problems in Engineering	3
E M A 506	Advanced Mechanics of Materials I	3
<i>Experimental Mechanics Elective (Select One)</i> 3		
E M A/M E 570	Experimental Mechanics	
E M A/M E 540	Experimental Vibration and Dynamic System Analysis	
E M A 611	Advanced Mechanical Testing of Materials	
E M A 522	Aerodynamics Lab	
E M A 521	Aerodynamics	3
or M E 563	Intermediate Fluid Dynamics	
E M A 542	Advanced Dynamics	3
or E M A 545	Mechanical Vibrations	
E M A 569	Senior Design Project	3
<b>Total Credits</b>		<b>31</b>

## ENGINEERING MECHANICS AND AEROSPACE ENGINEERING ELECTIVES

Code	Title	Credits
Select 9 credits from any E M A course numbered 500 and above		9

## TECHNICAL ELECTIVES

Code	Title	Credits
<b>Select 5 credits from:</b>		<b>5</b>

E M A 1	Cooperative Education Program (no more than 3 credits)	
Courses numbered 300+ in the College of Engineering except for E P D/INTEREGR		
Up to 3 credits of independent study such as E M A 599; independent study from other engineering subjects may be approved on an individual basis		
Courses numbered 300+ MATH, PHYSICS, COMP SCI, STAT (except STAT 301), ASTRON, MED PHYS, and CHEM departments		
PHYSICS 205	Modern Physics for Engineers	
or PHYSICS 241	Introduction to Modern Physics	
Students may also propose any class that they feel will benefit their education path with pre-requisite of two physics or calculus classes. For these courses the advisor will review the request and if approved, recommend a DARS substitution.		

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

## LIBERAL STUDIES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
	Complete Requirements (p. 244) <sup>1</sup>	16
<b>Total Credits</b>		<b>16</b>

1

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following sub-requirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. *Note:* Some courses may have "e" designation but not H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

### TOTAL CREDITS: 128

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

## NAMED OPTIONS IN ENGINEERING MECHANICS

Students may elect to declare a named option under the Engineering Mechanics BS. The named option in Aerospace Engineering can be declared as of Fall 2020. The named option in Astronautics is suspended as of Summer 2020; the last term to earn the named option is Summer 2026.

View as listView as grid

- ENGINEERING MECHANICS: AEROSPACE ENGINEERING (P. 329)
- ENGINEERING MECHANICS: ASTRONAUTICS (P. 332)

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn a Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4
Communication A		3 M E 231	3
M E 201 <sup>2</sup>		3 M S & E 350	3
or Liberal Studies Elective		Liberal Studies Elective or	3

M E 201 <sup>2</sup>			
	<b>16</b>		<b>16</b>
<b>Second Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MATH 234		4 MATH 320	3
PHYSICS 202		5 Technical Elective	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271		3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105		2 E M A/M E 307 <sup>4</sup>	1
		Liberal Studies Elective	3
	<b>17</b>		<b>16</b>
<b>Third Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
E M A 506		3 E M A 405	3
E M A 542 or 545 <sup>5</sup>		3 Experimental Mechanics Course <sup>6</sup>	3
MATH 321		3 M E 363 or CIV ENGR 310	3
STAT 324		3 Computing Elective	3
INTEREGR 397		3 Technical Elective	2
Liberal Studies Elective		3	
	<b>18</b>		<b>14</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
E M A 469		3 E M A 569	3
E M A 521 <sup>7</sup>		3 EMA Elective	3
EMA Elective		3 EMA Elective	3
E C E 376 or PHYSICS 321		3-4 M E 364	3
Liberal Studies Elective		4 Liberal Studies Elective	3
	<b>16-17</b>		<b>15</b>
<b>Total Credits 128-129</b>			

**1**

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute this with CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

**2**

M E 201 Introduction to Mechanical Engineering can be taken in first or second semester

**3**

Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

**4**

After completing E M A 201 Statics, students may take E M A 202 Dynamics and E M A 303 Mechanics of Materials/E M A/M E 307 Mechanics of Materials Lab in either order or concurrently.

**5**

Students electing E M A 545 Mechanical Vibrations instead of E M A 542 Advanced Dynamics should note that E M A 545 Mechanical Vibrations is offered in the spring semester only.

**6**

E M A 611 Advanced Mechanical Testing of Materials or E M A/M E 540 Experimental Vibration and Dynamic System Analysis or E M A/M E 570 Experimental Mechanics or E M A 522 Aerodynamics Lab. Note that E M A/M E 540 and E M A/M E 570 are typically offered in the fall. E M A 611 and E M A 522 are typically offered in the spring.

**7**

M E 563 Intermediate Fluid Dynamics may be substituted for E M A 521 Aerodynamics. Note that M E 563 is offered in the spring semester only.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

Continuing students who have fulfilled the progression requirements will also be assigned an Engineering Mechanics faculty advisor. Before enrolling in courses each semester, students must meet with their faculty advisor for assistance in planning courses and reviewing degree requirements. Faculty advisors are a valuable resource, as they can provide students with in-depth guidance on course content, internship and job opportunities, research, and more.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Darryl Thelen (Chair)  
 Riccardo Bonazza  
 Curt Bronkhorst  
 Wendy Crone  
 Christian Franck  
 Jaal Ghandhi  
 Sage Kokjohn  
 Roderic Lakes  
 Dan Negrut  
 Gregory F. Nellis  
 Tim Osswald  
 Frank Pfefferkorn  
 Xiaoping Qian  
 Douglas Reindl



David Rothamer  
 Scott T. Sanders  
 Krishnan Suresh  
 Mario F. Trujillo  
 Lih-sheng Turng  
 Fabian Waleffe

## ASSOCIATE PROFESSORS

Peter Adamczyk  
 Mark Anderson  
 Lianyi Chen  
 Melih Eriten  
 Katherine Fu  
 Tom N. Krupenkin  
 Franklin Miller  
 Sangkee Min  
 Jacob Notbohm  
 Wenxiao Pan  
 James Pikul  
 Pavana Prabhakar  
 Alejandro Roldan-Alzate  
 Michael Zinn

## ASSISTANT PROFESSORS

Joseph Andrews  
 Jennifer Franck  
 Corinne Henak  
 Eric Kazyak  
 Allison Mahvi  
 Luca Mastropasque  
 Josh Roth  
 Shiva Rudraraju  
 Stephan Rudykh  
 Ramathasan Thevamaran  
 Dakota Thompson  
 Mike Wagner  
 Michael Wehner  
 Jinlong Wu  
 Xiaobin Xiong  
 Xiangru Xu

## LECTURERS, TEACHING FACULTY, AND TEACHING PROFESSORS

Argantheal Berson  
 Glenn Bower  
 Michael Cheadle  
 Michael De Cicco  
 Jennifer Detlor  
 Randy Jackson  
 Andrew Mikkelson  
 Jason Oakley  
 Erick L. Oberstar  
 Jeffrey Roessler

See also Mechanical Engineering Faculty Directory (<https://directory.engr.wisc.edu/me/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Mechanics Holographic Lab  
 Viscoelasticity and Composites Lab  
 Wisconsin Laboratory for Structures and Materials Testing: Materials Testing Lab  
 Wind Tunnel Laboratory  
 Structural Mechanics Lab  
 Structural Dynamics and Vibrations Lab  
 Fatigue/Fracture Lab  
 Instructional Computing Lab (in Computer Aided Engineering)  
 Research Computing Lab

### SCHOLARSHIPS

The College of Engineering has several types of scholarships available to incoming and current engineering students. Students should explore the Wisconsin Scholarship Hub (WiSH), where you can apply to and find specific information on scholarships at UW-Madison. You can use WiSH to find engineering scholarships available through the College of Engineering; the Inclusion, Equity, and Diversity in Engineering Student Center; and other UW and external organizations. (Please note: students must be currently enrolled in, or have applied to, the College of Engineering to be considered for engineering scholarships.) To be matched with these available scholarship funds an application is required and the system is typically open to students in the spring of each year. Questions on the process can be directed to: [coescholarships@engr.wisc.edu](mailto:coescholarships@engr.wisc.edu). Additional financial assistance may be awarded through the Office of Student Financial Aid (333 E. Campus Mall RM 9701, 262-3060).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Engineering Mechanics and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## ENGINEERING MECHANICS: AEROSPACE ENGINEERING

Engineering mechanics is the home of aerospace engineering at UW-Madison. Some of the most exciting innovations in air and space travel require understanding of the engineering mechanics principles at the heart of this major. Whether there are humans in the cockpit or remote-controlled drones, the interaction of an aircraft with its surroundings results in deformation, vibration and dynamic motions that are all explained by engineering mechanics. Even without the atmosphere

experienced by aircraft, spacecraft and vehicles that explore distant planets must also withstand a variety of forces and be reliable in environments where repair may not be possible. In both cases, there is a premium on reducing weight and expanding capabilities. This makes aerospace engineering a natural extension of engineering mechanics. Following the same fundamental courses as our engineering mechanics major, students in the aerospace engineering option will apply their education in structural analysis, material science, advanced dynamics and vibrations to specific courses on aerodynamics, flight dynamics, orbital mechanics and propulsion. A highlight of this program is the aerodynamics laboratory where students conduct field experiments on the UW-Madison wind tunnel. Talk to your academic advisor about declaring this option.

## REQUIREMENTS

The following curriculum applies to students who entered the College of Engineering beginning in Fall 2023.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics <sup>1</sup>	22
	Science <sup>1</sup>	10
	Engineering Science	27
	Engineering Mechanics/Aerospace Engineering Core	40
	Technical Electives	5
	Communication Skills	8
	Liberal Studies	16
<b>Total Credits</b>		<b>128</b>

1

If the Mathematics and Statistics and the Science requirements are fulfilled with fewer than 30 credits combined, additional math/science credits will be needed to meet the math/science auxiliary credit condition.

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>22</b>

### SCIENCE

Code	Title	Credits
Select one of the following:		
CHEM 109	Advanced General Chemistry	5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	

PHYSICS 202	General Physics	5
<b>Total Credits</b>		<b>10-14</b>

### ENGINEERING SCIENCE

Code	Title	Credits
M E 201	Introduction to Mechanical Engineering	3
M E 231	Geometric Modeling for Design and Manufacturing	3
E P 271	Engineering Problem Solving I	3
or COMP SCI 200	Programming I	
or COMP SCI 220	Data Science Programming I	
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
or CIV ENGR 310	Fluid Mechanics	
E C E 376	Electrical and Electronic Circuits	3
or PHYSICS 321	Electric Circuits and Electronics	
M E 364	Elementary Heat Transfer	3
E C E 332	Feedback Control Systems	3
or M E 346	Introduction to Feedback Control for Mechanical Engineers	
or M E 446	Automatic Controls	
Computing Elective (select one)		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods	
E M A/E P 471	Intermediate Problem Solving for Engineers	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	
<b>Total Credits</b>		<b>27</b>

### ENGINEERING MECHANICS/AEROSPACE ENGINEERING CORE

Code	Title	Credits
E M A 201	Statics (with a grade of C or better)	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E M A/M E 307	Mechanics of Materials Lab	1
E M A 405	Practicum in Finite Elements	3
E M A 469	Design Problems in Engineering	3
E M A 506	Advanced Mechanics of Materials I	3
Experimental Mechanics Elective (select one)		3
E M A/M E 540	Experimental Vibration and Dynamic System Analysis	
E M A/M E 570	Experimental Mechanics	
E M A 611	Advanced Mechanical Testing of Materials	
E M A 522	Aerodynamics Lab	
E M A 521	Aerodynamics	3
or M E 563	Intermediate Fluid Dynamics	
E M A 542	Advanced Dynamics	3

E M A 545	Mechanical Vibrations	3
E M A 569	Senior Design Project	3
Spacecraft & Structural Dynamics Elective (select one)		3
E M A/ ASTRON 550	Astrodynamics	
E M A 610	Structural Finite Element Model Validation	
E M A 642	Satellite Dynamics	
Aerospace Fluid Mechanics Elective (select one)		3
E M A 523	Flight Dynamics and Control	
E M A 524	Rocket Propulsion	
<b>Total Credits</b>		<b>40</b>

### TECHNICAL ELECTIVES

Code	Title	Credits
Choose five credits from:		5
E M A 1	Cooperative Education Program (no more than 3 credits)	
Courses numbered 300+ in the CoE except for E P D/ INTEREGR		
Up to 3 credits of independent study such as E M A 599; independent study from other engineering subjects may be approved on an individual basis		
Courses numbered 300+ MATH, PHYSICS, COMP SCI, STAT (except STAT 301), ASTRON, MED PHYS, and CHEM departments		
PHYSICS 205	Modern Physics for Engineers or PHYSICS 241 Introduction to Modern Physics	
Students may also propose any class that they feel will benefit their education path with pre-requisite of two physics or calculus classes. For these courses the advisor will review the request and if approved, recommend a DARS substitution.		
<b>Total Credits</b>		<b>5</b>

### COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

### LIBERAL STUDIES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 244) <sup>1</sup>		16
<b>Total Credits</b>		<b>16</b>

### 1

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. *Note:* Some courses may have "e" designation but not H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

### HONORS IN UNDERGRADUATE RESEARCH

Qualified undergraduates may earn an Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## FOUR-YEAR PLAN

### EXAMPLE FOUR YEAR PLAN

First Year			
Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4
Communications A		3 M E 231	3
M E 201 <sup>2</sup>		3 Liberal Studies Elective or	3
or Liberal Studies Elective		M E 201 <sup>2</sup>	3
		Liberal Studies Elective	3
		<b>16</b>	<b>19</b>
Second Year			
Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
PHYSICS 202		5 Technical Elective	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271		3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105		2 E M A/M E 307 <sup>4</sup>	1
		Liberal Studies Elective	3
		<b>17</b>	<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
E M A 506	3	E M A 545	3
E M A 405	3	INTEREGR 397	3
E M A 542	3	M E 364	3
M E 363 or CIV ENGR 310	3	STAT 324	3
MATH 321	3	Computing Elective	3
		Experimental Mechanics Course <sup>5</sup>	3
	<b>15</b>		<b>18</b>

**Fourth Year**

Fall	Credits	Spring	Credits
E M A 469	3	E M A 569	3
E M A 521 <sup>6</sup>	3	E M A 523 or 524 <sup>7</sup>	3
E C E 376 or PHYSICS 321	3	E M A/ASTRON 550, 610, or 642	3
E C E 332, M E 346, or M E 446	3	Tech Elective	2
Liberal Studies Elective	4	Liberal Studies Elective	3
	<b>16</b>		<b>14</b>

**Total Credits 131****1**

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

**2**

M E 201 Introduction to Mechanical Engineering can be taken in first or second semester

**3**

Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

**4**

After completing E M A 201 Statics, students may take E M A 202 Dynamics and E M A 303 Mechanics of Materials/E M A/M E 307 Mechanics of Materials Lab in either order or concurrently.

**5**

E M A 611 Advanced Mechanical Testing of Materials or E M A/M E 540 Experimental Vibration and Dynamic System Analysis or E M A/M E 570 Experimental Mechanics or E M A 522 Aerodynamics Lab. Note that E M A/M E 540 Experimental Vibration and Dynamic System Analysis and E M A/M E 570 Experimental Mechanics are typically offered in the fall. E M A 611 Advanced Mechanical Testing of Materials and E M A 522 Aerodynamics Lab are typically offered in the spring.

**6**

M E 563 Intermediate Fluid Dynamics may be substituted for E M A 521 Aerodynamics. Note that M E 563 Intermediate Fluid Dynamics is offered in the spring semester only.

**7**

E M A 523 Flight Dynamics and Control is offered in the Spring semester only. E M A 524 Rocket Propulsion is offered in the Fall semester only.

# ENGINEERING MECHANICS: ASTRONAUTICS

**Admissions to the Engineering Mechanics: Astronautics Named Option have been suspended as of fall 2020 and will be discontinued as of fall 2026. If you have any questions, please contact the department (<https://engineering.wisc.edu/departments/mechanical-engineering/>).**

The astronautics option in engineering mechanics prepares students for design, development, and research, with an emphasis on applied mathematics and astronautics. Its purpose is to improve and expand the educational opportunities of students at the university who wish to pursue careers in astronautics and space-related areas. This is accomplished by providing in depth exposure to course sequences in astrodynamics, orbital mechanics, and flight dynamics, as well as a core curriculum of structural and material analysis, advanced dynamics, and vibrations. The program requires a minimum of 128 credits.

## REQUIREMENTS

The following curriculum applies to students who entered the College of Engineering after fall 2018.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	22
	Science	10
	Engineering Science	27
	Engineering Mechanics/Astronautics Core	40
	Technical Electives	5
	Communication Skills	8
	Liberal Studies	16
	<b>Total Credits</b>	<b>128</b>

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 324	Introductory Applied Statistics for Engineers	3

**Total Credits 22**

**SCIENCE**

Code	Title	Credits
Select one of the following: 5-9		
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
<b>Total Credits</b>		<b>10-14</b>

**ENGINEERING SCIENCE**

Code	Title	Credits
INTEREGR 170	Design Practicum	3
M E 231	Geometric Modeling for Design and Manufacturing	3
E P 271	Engineering Problem Solving I	3
or COMP SCI 200	Programming I	
or COMP SCI 220	Data Science Programming I	
or COMP SCI 310	Problem Solving Using Computers	
M E 361	Thermodynamics	3
M E 363	Fluid Dynamics	3
or CIV ENGR 310	Fluid Mechanics	
E C E 376	Electrical and Electronic Circuits	3
or PHYSICS 321	Electric Circuits and Electronics	
M E 364	Elementary Heat Transfer	3
E C E 332	Feedback Control Systems	3
or M E 346	Introduction to Feedback Control for Mechanical Engineers	
or M E 446	Automatic Controls	
Computing Elective (select one)		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods	
E M A/E P 471	Intermediate Problem Solving for Engineers	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	
<b>Total Credits</b>		<b>27</b>

**ENGINEERING MECHANICS/ASTRONAUTICS CORE**

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E M A/M E 307	Mechanics of Materials Lab	1
E M A 405	Practicum in Finite Elements	3
E M A 469	Design Problems in Engineering	3
E M A 506	Advanced Mechanics of Materials I	3
Experimental Mechanics Elective (select one)		3
E M A/M E 540	Experimental Vibration and Dynamic System Analysis	
E M A/M E 570	Experimental Mechanics	

E M A 611	Advanced Mechanical Testing of Materials	
E M A 522	Aerodynamics Lab	
E M A 521	Aerodynamics	3
or M E 563	Intermediate Fluid Dynamics	
E M A 542	Advanced Dynamics	3
E M A 545	Mechanical Vibrations	3
E M A 569	Senior Design Project	3
Spacecraft & Structural Dynamics Elective (select one)		3
E M A/ ASTRON 550	Astroynamics	
E M A 610	Structural Finite Element Model Validation	
E M A 642	Satellite Dynamics	
Aerospace Fluid Mechanics Elective (select one)		3
E M A 523	Flight Dynamics and Control	
E M A 601	Special Topics in Engineering Mechanics (Topic: Rocket Propulsion)	
or E M A 524	Rocket Propulsion	
<b>Total Credits</b>		<b>40</b>

**TECHNICAL ELECTIVES**

Code	Title	Credits
Select five credits at an academic level that requires 2 semesters of calculus or 2 semesters of physics as a prerequisite. E M A 1 may also be used to satisfy this requirement.		5

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

**LIBERAL STUDIES**

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 244) <sup>1</sup>		16
<b>Total Credits</b>		<b>16</b>

1

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they count only once toward the total required. *Note:* Some courses may have "e" designation but not H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

## HONORS IN UNDERGRADUATE RESEARCH

Qualified undergraduates may earn an Honors in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/policiesandregulationstext>).

## FOUR-YEAR PLAN

### ASTRONAUTICS OPTION IN ENGINEERING MECHANICS EXAMPLE FOUR YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4
Communications A		3 M E 231	3
INTEREGR 170 <sup>2</sup>		3 Liberal Studies Elective or INTEREGR 170 <sup>2</sup>	3
or Liberal Studies Elective		LIBERAL STUDIES ELECTIVE	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
PHYSICS 202		5 Technical Elective	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271 or COMP SCI 310		3 E M A 303 <sup>4</sup>	3

E P D 275 or COM ARTS 105	2 E M A/M E 307 <sup>4</sup>	1
	LIBERAL STUDIES ELECTIVE	3
	<b>17</b>	<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
E M A 506		3 E M A 545	3
E M A 405		3 INTEREGR 397	3
E M A 542		3 M E 364	3
M E 363 or CIV ENGR 310		3 STAT 324	3
MATH 321		3 Computing Elective Experimental Mechanics Course <sup>5</sup>	3
	<b>15</b>		<b>18</b>

#### Fourth Year

Fall	Credits	Spring	Credits
E M A 469		3 E M A 569	3
E M A 521 <sup>6</sup>		3 E M A 523 or 524 <sup>7</sup>	3
E C E 376 or PHYSICS 321		3 E M A/ASTRON 550, 610, or 642	3
E C E 332, M E 346, or M E 446		3 Tech Elective	2
Liberal Studies Elective		4 Liberal Studies Elective	3
	<b>16</b>		<b>14</b>

#### Total Credits 128

1

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

2

Students who were not able to take INTEREGR 170 (<https://guide.wisc.edu/search/?P=INTEREGR%20170>) Design Practicum as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the departments of Chemistry, Computer Sciences, Mathematics, and Physics.

3

Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

4

After completing E M A 201 Statics, students may take E M A 202 Dynamics and E M A 303 Mechanics of Materials/E M A/M E 307 Mechanics of Materials Lab in either order or concurrently.

5

E M A 611 Advanced Mechanical Testing of Materials or E M A/M E 540 Experimental Vibration and Dynamic System Analysis or E M A/M E 570 Experimental Mechanics or E M A 522 Aerodynamics Lab. Note that E M A/M E 540 and E M A/M E 570 are typically offered in the fall. E M A 611 and E M A 522 are typically offered in the spring.

6

M E 563 Intermediate Fluid Dynamics may be substituted for E M A 521 Aerodynamics. Note that M E 563 is offered in the spring semester only.

7

Before Fall 2020, E M A 524 Rocket Propulsion was offered as E M A 601 Special Topics in Engineering Mechanics with the topic of Rocket Propulsion. It is offered in the fall semester only. E M A 523 Flight Dynamics and Control is offered in the Spring semester only.

## ENGINEERING THERMAL ENERGY SYSTEMS, CERTIFICATE

Efficient use of thermal energy is an increasingly popular area of interest for UW–Madison engineering students and employers. The objective of the certificate in engineering thermal energy systems program is to provide students in the College of Engineering with an organized set of courses that will improve their capacity to analyze and design innovative thermal energy systems. These systems include, but are not limited to, energy conversion systems and their fuels, refrigeration, combustion, and solar energy. Thermal energy systems either employ thermal energy directly or convert thermal energy to other energy forms.

### HOW TO GET IN

Students who wish to apply for admission into this certificate program will need to complete a major/certificate declaration form obtained from the student services office. Once approved by the student services office and the student's faculty advisor, the form will be forwarded to the Dean's Office to be added to the student record. The student services office will, in conjunction with the student's advisor and curriculum committee chair, assist the student in selecting appropriate courses that fulfill certificate requirements. If a Special student does not have a home department in the College of Engineering, the Department of Mechanical Engineering will advise and sponsor the student in this program. To receive the certificate, the applicant must achieve a GPA of 3.0 or higher in the proposed courses listed on the completed form.

Submit the completed Declaration of Intent Form (<https://go.wisc.edu/u9x8g2/>) to student services.

### REQUIREMENTS

The certificate, geared toward UW–Madison undergraduate students, requires a total of 18 completed credits. Up to 9 of the credits can be thermal-energy-related courses that are required in the student's undergraduate major. The additional 9 credits must be selected from an assortment of approved elective courses in the College of Engineering.

### COURSES

Courses not on this list must be specifically approved by the certificate curriculum committee.

Code	Title	Credits
<b>Mechanical Engineering</b>		
M E 460	Applied Thermal / Structural Finite Element Analysis	3
M E 461	Thermal Systems Modeling	3

M E 466	Air Pollution Effects, Measurements and Control	3
M E 469	Internal Combustion Engines	3
M E 471	Gas Turbine and Jet Propulsion	3
M E/N E 520	Two-Phase Flow and Heat Transfer	3
M E 561	Intermediate Thermodynamics	3
M E 563	Intermediate Fluid Dynamics	3
M E 564	Heat Transfer	3
M E/N E 565	Power Plant Technology	3
M E/E P 566	Cryogenics	3
M E/CBE 567	Solar Energy Technology	3
M E 569	Applied Combustion	3
M E 572	Intermediate Gas Dynamics	3
M E 573	Computational Fluid Dynamics	3

#### Chemical and Biological Engineering

CBE 320	Introductory Transport Phenomena	4
CBE 430	Chemical Kinetics and Reactor Design	3
CBE 440	Chemical Engineering Materials	3
CBE/M E 567	Solar Energy Technology	3
CBE 535	Heterogeneous Catalysis: Principles and Applications	3

#### Civil and Environmental Engineering

CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
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#### Engineering Mechanics and Astronautics

E M A 521	Aerodynamics	3
E M A 522	Aerodynamics Lab	3
E M A 524	Rocket Propulsion	3

#### Nuclear Engineering

N E 411	Nuclear Reactor Engineering	3
N E/M E 520	Two-Phase Flow and Heat Transfer	3
N E 550	Advanced Nuclear Power Engineering	3
N E/M E 565	Power Plant Technology	3
E P/M E 566	Cryogenics	3

#### Biological Systems Engineering

BSE 460	Biorefining: Energy and Products from Renewable Resources	3
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#### Materials Science and Engineering

M S & E 463	Materials for Elevated Temperature Service	3
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## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Follow a directed sequence of technical elective courses specializing in thermal energy systems.

- Synthesize knowledge gained from a curriculum that focuses on applying fundamentals of engineering to the analysis of thermal energy systems.
- Be prepared for the job market with a solid background in the energy field.

- Grades for any courses that have already been taken
- When future courses will be taken
- Cumulative GPA at time of declaration
- Expected graduation date
- Major
- Signature from a key program faculty member indicating that the student meets the declaration requirements and has discussed the study plan with the faculty member

# MANUFACTURING ENGINEERING, CERTIFICATE

## OVERVIEW

Are you a student interested in manufacturing? Do you like drawing on a variety of skills and knowledge to solve complex problems? If so, you may wish to consider this certificate.

Because manufacturing itself is complex and broad, manufacturing engineers apply many engineering principles and work in a multidisciplinary world. This certificate allows students to emphasize either manufacturing systems or manufacturing processes—or, they can choose to spread courses evenly across both. Through this certificate, students will gain an understanding of these two areas of manufacturing. Undergraduates in industrial and systems engineering or mechanical engineering can pursue this certificate without adding time to the degree.

## HOW TO GET IN

### ENROLLMENT

This undergraduate certificate is open to all undergraduate students at the University of Wisconsin–Madison. Mechanical engineering and Industrial and Systems Engineering students can complete this certificate without adding time to degree.

### DECLARATION

Declaring the undergraduate Certificate in Manufacturing Engineering requires:

- Undergraduate standing at UW–Madison
- Cumulative GPA (at UW–Madison) greater than or equal to 3.0
- Green Shop Pass with CNC 1 upgrade (College of Engineering TEAM Lab)
- Completion of the declaration form
- Meeting with a faculty advisor

Students must complete a declaration form (<https://go.wisc.edu/ame0j3/>), obtain the required signatures, and bring the form to one of the academic advisors for the Department of Mechanical Engineering located in 1410 Engineering Drive, Suite 170. The form will be used to ensure that students have completed the Green Shop Pass and CNC 1 upgrade in the College of Engineering TEAM Lab, meet the GPA requirement for declaration, meet the course grade requirement for courses already completed, and list courses that are planned in order to satisfy the certificate program. The form will contain fields for the following information:

- Study plan (courses that have been taken, are being taken, and plan to take)
  - Core courses
  - Elective courses

### COMPLETION

In order to successfully complete the undergraduate certificate in manufacturing engineering, students must:

- Have declared the certificate
- Maintain a cumulative GPA of 3.0 or greater for the courses taken for the certificate. If a course is repeated, the average of the grades received in the course will be used in calculating the cumulative GPA.
- Have received a grade of BC or higher in all courses taken for the certificate. If a course is repeated, the highest grade received in the course is used for this criteria.

## REQUIREMENTS

The core courses were chosen to include three manufacturing process-focused courses as well as two manufacturing systems-focused courses. A manufacturing engineer must be multidisciplinary because of the complex and broad nature of manufacturing as an application of many engineering principles. The objective of the core course requirements is to provide students with basic understanding of manufacturing systems and basic understanding of manufacturing processes.

The certificate requires a total of 18 credits.

Code	Title	Credits
<b>Three courses must be from the following Core Courses with a grade of BC or better:</b>		<b>9</b>
M S & E 332	Macroprocessing of Materials	
M E 310	Manufacturing: Polymer Processing and Engineering	
M E 311	Manufacturing: Metals and Automation <sup>1</sup>	
I SY E 315	Production Planning and Control	
I SY E 415	Introduction to Manufacturing Systems, Design and Analysis <sup>1</sup>	
<b>An additional three courses must be from any of the following Elective Courses with a grade of BC or better, with at least one course from each of the two categories:</b>		<b>9</b>

#### 1. Mechanical and Materials Engineering Electives

M E 311	Manufacturing: Metals and Automation <sup>1</sup>	
M E 417	Transport Phenomena in Polymer Processing	
M E 418	Engineering Design with Polymers	
M E 419	Fundamentals of Injection Molding	
M E 420	Introduction to Polymer Composites Processing	
M E 429	Metal Cutting	



M E 437	Advanced Materials Selection
M E/E C E 439	Introduction to Robotics
M E 447	Computer Control of Machines and Processes
M E 449	Redesign and Prototype Fabrication
M E 514	Polymer Additive Manufacturing
M S & E 333	Microprocessing of Materials
M E 531	Digital Design and Manufacturing
M S & E 461	Advanced Metal Casting
M S & E/M E 462	Welding Metallurgy
<b>2. Industrial &amp; Systems Engineering Electives</b>	
I SY E 412	Fundamentals of Industrial Data Analytics
I SY E 415	Introduction to Manufacturing Systems, Design and Analysis <sup>1</sup>
I SY E/M E 510	Facilities Planning
I SY E/M E 512	Inspection, Quality Control and Reliability
I SY E/B M E 564	Occupational Ergonomics and Biomechanics
I SY E 575 or M E/ STAT 424	Introduction to Quality Engineering Statistical Experimental Design
I SY E 605	Computer Integrated Manufacturing
I SY E 615	Production Systems Control
I SY E/M E 641	Design and Analysis of Manufacturing Systems
I SY E/M E 643	Performance Analysis of Manufacturing Systems

**Total Credits****18****1**

If M E 311 Manufacturing: Metals and Automation and/or I SY E 415 Introduction to Manufacturing Systems, Design and Analysis are taken as part of the Core Course Requirement, then they cannot also count as an elective.

No exceptions or substitutions to the core courses are allowed.

Elective courses not listed must be specifically approved by the curriculum committee of the department teaching the course. The request must include the course number, course name, name and contact information for the professor currently teaching or planning to teach the course; syllabus; and which category it should be listed under. Courses that are approved by the curriculum committee of the department teaching the course must be sent to the certificate program director. Only formal courses will be considered.

Only courses taken for a letter grade count toward this certificate. Only courses in which a grade of BC or better is received count toward this certificate. Courses taken at other institutions may be counted toward this certificate if they have been identified as equivalent through the existing process. At least 50% of the courses (i.e., three courses) for this certificate must be earned in residence on the UW–Madison campus.

Students must maintain a cumulative GPA of 3.0 or better for the courses taken for this certificate. If a course is repeated, the average of the grades received in the course will be used in calculating the cumulative GPA.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate knowledge of the fundamental concepts of manufacturing discrete parts.
2. Utilize skills related to manufacturing engineering.
3. Communicate effectively in the methods related to manufacturing engineering.
4. Generate solutions to problems that may arise in manufacturing engineering.

## PEOPLE

### KEY PROGRAM FACULTY (MAY SERVE AS ADVISORS FOR STUDENTS PURSUING THIS CERTIFICATE)

#### Department of Mechanical Engineering (ME)

Lianyi Chen, Associate Professor  
Michael DeCicco, Associate Lecturer  
Sangkee Min, Associate Professor  
Tim Osswald, Professor  
Frank E. Pfefferkorn, Professor  
Lih-Sheng (Tom) Turng, Professor

#### Department of Industrial & Systems Engineering (ISyE)

Kaibo Liu, Associate Professor  
Leyuan Shi, Professor  
Raj Veeramani, Professor  
Xin Wang, Assistant Professor  
Charlene Yauch, Professor of Practice  
Shiyu Zhou, Professor

#### Department of Materials Science & Engineering (MS&E)

Sindo Kou, Professor  
Kumar Sridharan, Professor

## MECHANICAL ENGINEERING, B.S.

The Department of Mechanical Engineering (ME) within the University of Wisconsin–Madison College of Engineering is the home of two undergraduate degree programs (mechanical engineering and engineering mechanics, including an option in aerospace engineering) and two graduate degree programs (mechanical engineering and engineering mechanics). The department's faculty conducts research in the areas of advanced manufacturing, biomechanics, computation & data-driven engineering, energy systems, solid & fluid mechanics, and robotics, controls, & sensing. This combination of topics fosters synergies with respect to polymers, mechatronics, aerospace, thermal, materials, additive manufacturing, and fluids. The mechanical engineering undergraduate program has been ranked in the top twelve, and the mechanical

engineering graduate program has been ranked in the top seven, among public universities, according to U.S. News and World Report 2022 rankings.

## MECHANICAL ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

Graduates from the undergraduate program in mechanical engineering will choose to use the knowledge and skills they have acquired during their undergraduate years to pursue a wide variety of career and life goals. We encourage this diversity of paths.

Independent of whether our graduates choose to pursue a professional career, postgraduate education, or volunteer service in engineering or a different field; we expect that our graduates will achieve the following objectives within three to five years after graduation:

1. They will exhibit a fundamental understanding of broader engineering disciplines with strong skills in mechanical engineering, problem solving, leadership, teamwork, and communication.
2. They will use these skills to contribute to their organizations and communities.
3. They will make thoughtful, well-informed decisions in their career and life.
4. They will demonstrate a continuing commitment to and interest in their own and other's education.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying

to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@enr.wisc.edu](mailto:ugtransfer@enr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to undergraduate students admitted to the Mechanical Engineering degree program in Fall 2023 or later.

Code	Title	Credits
	Mathematics and Statistics	19
	Basic Science	13-14
	Non-Mechanical Engineering	6
	Mechanical Engineering Core	53-54
	Technical Electives	12
	Math/Science Electives	3
	Communication Skills	6
	Liberal Studies	15
	<i>Total Credits</i>	<i>Minimum 128</i>

### MATHEMATICS/STATISTICS<sup>1</sup>

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
STAT 324	Introductory Applied Statistics for Engineers	3
or I SY E 210	Introduction to Industrial Statistics	
<b>Total Credits</b>		<b>19</b>

1

All students must have the equivalent of the above courses. If the above requirement is fulfilled with fewer than 19 credits, additional math/science credits may be needed to meet the math/science auxiliary credit condition.

Transfer students may fulfill the statistics requirement with other statistics courses having a calculus prerequisite and the approval of the mechanical engineering department via a Course Substitution Form.

### BASIC SCIENCE<sup>1</sup>

Code	Title	Credits
	Select one of the following:	4-5
CHEM 103	General Chemistry I	
CHEM 109	Advanced General Chemistry	
COMP SCI 220	Data Science Programming I	4
PHYSICS 202	General Physics <sup>2</sup>	5
<b>Total Credits</b>		<b>13-14</b>

1

Basic science courses, excluding Computer Science courses, are included in the math/science auxiliary credit condition.

2

Students following the normal M E course sequence need not take PHYSICS 201 General Physics to satisfy the prerequisites for PHYSICS 202 General Physics.

## NON-MECHANICAL ENGINEERING

Code	Title	Credits
E M A 201	Statics (with a grade of C or better)	3
M S & E 350	Introduction to Materials Science	3
<b>Total Credits</b>		<b>6</b>

## MECHANICAL ENGINEERING CORE

Code	Title	Credits
M E 201	Introduction to Mechanical Engineering	3
M E 231	Geometric Modeling for Design and Manufacturing	3
M E 240	Dynamics (with a grade of C or better)	3
M E 306	Mechanics of Materials (with a grade of C or better)	3
M E/E M A 307	Mechanics of Materials Lab	1
M E 310	Manufacturing: Polymer Processing and Engineering	3
M E 311	Manufacturing: Metals and Automation	3
M E 331	Computer-Aided Engineering	3
M E 340	Dynamic Systems	3
M E 342	Design of Machine Elements	3
M E 351 & M E 352	Interdisciplinary Experiential Design Projects I and Interdisciplinary Experiential Design Projects II	6
M E 361	Thermodynamics (with a grade of C or better)	3
M E 363	Fluid Dynamics	3
M E 364	Elementary Heat Transfer	3
M E 368	Engineering Measurements and Instrumentation	4
M E 370	Energy Systems Laboratory	3
Choose one:		3-4
M E 376	Introduction to Mechatronics	
E C E 376	Electrical and Electronic Circuits	
<b>Total Credits</b>		<b>53-54</b>

## TECHNICAL ELECTIVES

Code	Title	Credits
	The mechanical engineering curriculum requires a total of 12 credits of technical electives. A minimum of 3 of those 12 credits must be from formal M E courses numbered 400 and higher. A formal course is defined as a class that meets regularly in a lecture format to study a selected topic. The educational mission is assisted with homework and exams. Formal courses include online courses but do not include seminar, survey, independent study, research, topics, or similar courses.	12

Additional technical electives may include formal courses in engineering, mathematics, physics, chemistry, statistics, and computer science courses numbered 400 and higher. Course choices may impact the math/science auxiliary credit condition. INTEREGR and E P D courses are limited to those listed below. The following courses are also accepted as technical electives:

ANAT&PHY 335	Physiology	5
BSE 351	Structural Design for Agricultural Facilities	3
BSE 364	Engineering Properties of Food and Biological Materials	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
CBE 320	Introductory Transport Phenomena	4
CBE 326	Momentum and Heat Transfer Operations	3
CHEM 341	Elementary Organic Chemistry	3
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CIV ENGR 311	Hydroscience	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR/ G L E 330	Soil Mechanics	3
CIV ENGR 340	Structural Analysis I	3
CIV ENGR 370	Transportation Engineering	3
CIV ENGR 392	Building Information Modeling (BIM)	3
CIV ENGR 415	Hydrology	3
COMP SCI 300	Programming II	3
COMP SCI 320	Data Science Programming II	4
COMP SCI/ E C E 354	Machine Organization and Programming	3
E C E 320	Electrodynamics II	3
E C E 330	Signals and Systems	3
E C E 340	Electronic Circuits I	3
E C E 342	Electronic Circuits II	3
E C E/ COMP SCI 352	Digital System Fundamentals	3
E C E 353	Introduction to Microprocessor Systems	3
E C E/ COMP SCI 354	Machine Organization and Programming	3
E C E 355	Electromechanical Energy Conversion	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
E P 272	Engineering Problem Solving Using Maple	1
E P D 660	Core Competencies of Sustainability	3
INTEREGR 301	Engineering and Biology: Technological Symbiosis	1-4
ISY E 315	Production Planning and Control	3
ISY E 323	Operations Research-Deterministic Modeling	3
ISY E/PSYCH 349	Introduction to Human Factors	3

INFO SYS 371	Technology of Computer-Based Business Systems	3
MATH 321	Applied Mathematical Analysis	3
MATH 322	Applied Mathematical Analysis	3
M E 273	Engineering Problem Solving with EES	1
M S & E 330	Thermodynamics of Materials	4
M S & E 332	Macroprocessing of Materials	3
M S & E 352	Materials Science-Transformation of Solids	3
N E 305	Fundamentals of Nuclear Engineering	3
PHYSICS 205	Modern Physics for Engineers	3
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
PHYSICS 322	Electromagnetic Fields	3
PHYSICS 325	Optics	4
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	3
STAT 333	Applied Regression Analysis	3
STAT 349	Introduction to Time Series	3
STAT 351	Introductory Nonparametric Statistics	3

Up to 3 technical elective credits may be obtained for non-formal courses such as independent study courses (M E 489, M E 491, M E 492, and other engineering independent study courses numbered 399 and higher); Cooperative Education (M E 1); and E P D 690, "Wisconsin Engineer Magazine."

## MATH/SCIENCE ELECTIVES

Code	Title	Credits
	The mechanical engineering curriculum requires 3 credits of math/science electives. CHEM 104 or CHEM 109, any formal course listed as a biological science and numbered 100 or higher, any non-engineering formal course listed with physical or natural science breadth and numbered 200 or higher will satisfy this requirement. If the math/science auxiliary credit condition is met with additional coursework, the math/science elective requirement may be met with a formal course offered by an engineering department numbered 200 and above (except INTEREGR and E P D).	3
<b>Total Credits</b>		<b>3</b>

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>6</b>

## LIBERAL ELECTIVES

Code	Title	Credits
The Mechanical Engineering curriculum requires 15 credits of liberal elective courses. See College of Engineering Liberal Studies Requirements for details.		
Complete Requirements (p. 244)		15
<b>Total Credits</b>		<b>15</b>

## ADDITIONAL INFORMATION

Students fulfilling all course requirements with fewer than 128 credits must comply with the credit minimum by taking additional free elective credits. Students must meet the math/science auxiliary credit condition with a minimum of 30 credits. Students in good academic standing may take free elective courses pass/fail (see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>) for details). Pass/fail courses do not count toward specific degree requirements.

Independent Studies and projects courses:

Code	Title	Credits
M E 291	Undergraduate Mechanical Engineering Projects	1-3
M E 299	Independent Study	1-3
M E 489	Honors in Research	1-3
M E 491	Mechanical Engineering Projects I	1-3
M E 492	Mechanical Engineering Projects II	1-3

Students must have a cumulative 2.5 GPA or a 3.0 GPA for their previous two semesters and have written permission to enroll from their research advisor.

For information on credit loads, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

## HONORS IN RESEARCH PROGRAM

The ME Department's Undergraduate Honors in Research Program allows students to participate in the creation of new knowledge and experience the excitement of the research process. Students in the program write and submit a senior thesis. Admission requirements include:

- At least two semesters completed on the Madison campus with a cumulative GPA of at least 3.5;
- Majoring in Mechanical Engineering;
- Approval of an appropriate professor who will serve as the thesis advisor.

The "Honors in Research" designation will be awarded to graduates who meet the following requirements:

- Satisfaction of the requirements for an undergraduate degree in Mechanical Engineering;
- A cumulative GPA of at least 3.3;
- Completion of a total of at least 6 credits of M E 489 Honors in Research;

- Receive a final grade of at least "B" in M E 489;
- Completion of senior thesis.

Students must certify completion of the program with their M E 489 advisor the term they intend to graduate. To certify program completion students must complete the appropriate form and submit to student services.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
CHEM 103 or 109 <sup>1</sup>		4 E M A 201 <sup>2</sup>	3
M E 201		3 M E 231	3
or Communication A		Communication A or	3
Liberal Studies Elective	3	M E 201	
		Liberal Studies Elective	3
	<b>15</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
M E 306 <sup>2</sup>		3 M E 240 <sup>2</sup>	3
M E/E M A 307		1 PHYSICS 202	5
COMP SCI 220		4 M S & E 350	3
Liberal Studies Elective	3	STAT 324	3
	<b>15</b>		<b>17</b>

#### Third Year

Fall	Credits	Spring	Credits
M E 331		3 M E 342	3
M E 361 <sup>2</sup>		3 M E 363	3
M E 340		3 INTEREGR 397	3
Math/Science Elective	3	M E 376 or E C E 376	4
M E 310		3 M E 311	3
Liberal Studies Elective	3		
	<b>18</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
M E 351		3 M E 352	3
M E 364		3 M E 370	3
M E 368		4 Technical Elective	3
Technical Elective	3	Technical Elective	3
Technical Elective	3	Liberal Studies Elective	3
	<b>16</b>		<b>15</b>

#### Total Credits 128

1

CHEM 109 Advanced General Chemistry may be taken in place of CHEM 103 General Chemistry I. If CHEM 103 is taken, students may need to take additional free electives to meet the minimum number of credits required for the degree.

2

E M A 201 Statics, M E 240 Dynamics, M E 306 Mechanics of Materials, and M E 361 Thermodynamics each require a minimum grade of C.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

### ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Darryl Thelen (Chair)  
 Riccardo Bonazza  
 Curt Bronkhorst  
 Wendy Crone  
 Christian Franck  
 Jaal Ghandhi  
 Sage Kokjohn  
 Roderic Lakes  
 Dan Negrut  
 Gregory F. Nellis  
 Tim Osswald  
 Frank Pfefferkorn  
 Xiaoping Qian  
 Douglas Reindl  
 David Rothamer  
 Scott T. Sanders  
 Krishnan Suresh  
 Mario F. Trujillo  
 Lih-sheng Turng  
 Fabian Waleffe

### ASSOCIATE PROFESSORS

Peter Adamczyk  
 Mark Anderson  
 Lianyi Chen  
 Melih Eriten  
 Katherine Fu  
 Tom N. Krupenkin  
 Franklin Miller  
 Sangkee Min  
 Jacob Notbohm

Wenxiao Pan  
James Pikul  
Pavana Prabhakar  
Alejandro Roldan-Alzate  
Michael Zinn

## ASSISTANT PROFESSORS

Joseph Andrews  
Jennifer Franck  
Corinne Henak  
Eric Kazyak  
Allison Mahvi  
Luca Mastropasque  
Josh Roth  
Shiva Rudraraju  
Stephan Rudykh  
Ramathanan Thevamaran  
Dakota Thompson  
Mike Wagner  
Michael Wehner  
Jinlong Wu  
Xiaobin Xiong  
Xiangru Xu

## LECTURERS, TEACHING FACULTY, AND TEACHING PROFESSORS

Arganthaël Berson  
Glenn Bower  
Michael Cheadle  
Michael De Cicco  
Jennifer Detlor  
Randy Jackson  
Andrew Mikkelson  
Jason Oakley  
Erick L. Oberstar  
Jeffrey Roessler

See also Mechanical Engineering Faculty Directory (<https://directory.engr.wisc.edu/me/faculty/>).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Mechanical and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## NUCLEAR ENGINEERING AND ENGINEERING PHYSICS

The Department of Nuclear Engineering & Engineering Physics (NEEP) within the University of Wisconsin–Madison College of Engineering is the home of two undergraduate degree programs (nuclear engineering,

including an option in radiation sciences; and engineering physics) and one graduate degree program (nuclear engineering and engineering physics). The department's faculty conducts research in the areas of nuclear systems, and plasma physics and fusion energy science. This combination of topics fosters synergies with respect to neutronics, nuclear materials, fluid dynamics, and computation. The graduate nuclear engineering program has been ranked in the top four, nationally, by *U.S. News and World Report* in each of the past ten years.

## DEGREES/MAJORS/CERTIFICATES

- Engineering for Energy Sustainability, Certificate (p. 344)
- Engineering Physics, B.S. (p. 345)
- Nuclear Engineering Materials, Certificate (p. 351)
- Nuclear Engineering, B.S. (p. 352)

## PEOPLE

### PROFESSORS

Paul Wilson (Chair)  
Wendy Crone  
Chris Hegna  
Oliver Schmitz  
Carl Sovinec  
Kumar Sridharan

### ASSOCIATE PROFESSORS

Adrien Couet

### ASSISTANT PROFESSORS

Stephanie Diem  
Juliana Pacheco Duarte  
Benedikt Geiger  
Ben Lindley  
Yongfeng Zhang

See also Nuclear Engineering & Engineering Physics Faculty Directory (<https://directory.engr.wisc.edu/neep/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Fluid Mechanics and Heat Transfer Laboratories  
Instructional Computing Labs (in Computer Aided Engineering)  
Nanomechanics Laboratory  
Nuclear Instrumentation Laboratory  
Plasma Physics Laboratories  
Superconductivity and Cryogenics Laboratories

### SCHOLARSHIPS

The Department of Nuclear Engineering & Engineering Physics and the College of Engineering have several types of scholarships available to incoming and current engineering students. Students should explore the Wisconsin Scholarship Hub (WiSH), where you can apply to and find specific information on scholarships at UW–Madison. You can use WiSH to find engineering scholarships available through the College of

Engineering; the Inclusion, Equity, and Diversity in Engineering Student Center; the Nuclear Engineering & Engineering Physics Department; and other UW and external organizations. (Please note: students must be currently enrolled in, or have applied to, the College of Engineering to be considered for engineering scholarships.) To be matched with these available scholarship funds an application is required and the system is typically open to students in the spring of each year. Questions on the process can be directed to: coescholarships@engr.wisc.edu. Additional financial assistance may be awarded through the Office of Student Financial Aid (333 E. Campus Mall RM 9701, 262-3060).

## ENGINEERING FOR ENERGY SUSTAINABILITY, CERTIFICATE

Equity and sustainability of energy resources in the face of increasing global population and economic development are key issues at the center of the public discourse today. The objective of this certificate program is to offer undergraduate students a suite of courses addressing energy sustainability. The courses span across the engineering curriculum, with firm roots in real-world design and engineering practices.

Students enrolled as degree-seeking undergraduates with a plan of study to fulfill the certificate requirements may enroll in the program. Applications may be submitted at any time, but students are encouraged to apply early in their undergraduate careers in order to ensure successful completion of the program; however, students may take courses that fulfill certificate requirements before submitting an application.

### HOW TO GET IN

## DECLARING THE CERTIFICATE

A student who is interested in declaring the certificate must complete an online application form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_e3cK4U4xkli9oLX/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_e3cK4U4xkli9oLX/)). The application form requires students to fill out a tentative study plan for completing the certificate requirements.

- Certificate Application Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_e3cK4U4xkli9oLX/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_e3cK4U4xkli9oLX/))

Prior to completing the application form, students should either schedule a meeting with the certificate advisor/coordinator or complete an online orientation ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_0VAuEcR28ZNnTyB/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_0VAuEcR28ZNnTyB/)) involving a short series of videos and accompanying questions.

Applications may be submitted at any time, but students are encouraged to apply early in their undergraduate careers in order to ensure successful completion of the program. Engineering students must meet progression requirements in their selected major before the certificate can be added to their record.

## REQUIREMENTS

### REQUIREMENTS

#### TOTAL CREDITS REQUIRED FOR CERTIFICATE COMPLETION: MINIMUM OF 16

- Minimum of 6 credits required in Liberal Studies and Science category (including one foundational course option)
- Minimum of 6 credits required in Engineering category (including one foundational course option)
- Additional 3 credits from either category above, or students may substitute an applied course such as senior capstone or independent study (with approval). See note under the Capstone heading below.
- 1 credit required in Seminar category
- Grade point average of 2.5 or above for all coursework that counts for the certificate

#### Liberal Studies and Science (Minimum of 6 credits)

Code	Title	Credits
<b>Liberal Studies and Science Foundational Courses</b>		<b>3</b>
A A E 246	Climate Change Economics and Policy	
A A E/ECON 371	Energy, Resources and Economics	
ENVIR ST 349	Climate Change Governance	
ENVIR ST/ GEOSCI 411	Energy Resources	
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	
PHYSICS 115	Energy and Climate	
<b>Any Liberal Studies and Science Foundational course from above or</b>		<b>3</b>
<b>Electives:</b>		
ENVIR ST 112	Environmental Studies: Social Science Perspectives	
ENVIR ST 113	Environmental Studies: Environmental Humanities	
ENVIR ST/ILS 126	Principles of Environmental Science	
ENVIR ST/ GEOG 139	Global Environmental Issues	
ENVIR ST/ A A E 244	The Environment and the Global Economy	
ENVIR ST/ GEOG 339	Environmental Conservation	
ENVIR ST/A A E/ ECON 343	Environmental Economics	
ENVIR ST/ ATM OCN 355	Introduction to Air Quality	
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	

#### Engineering (Minimum of 6 credits)

Code	Title	Credits
<b>Engineering Foundational Courses</b>		<b>3</b>
BSE/ ENVIR ST 367	Renewable Energy Systems	



CBE 512	Energy Technologies and Sustainability	
E C E 356	Electric Power Processing for Alternative Energy Systems	
M E/N E 565	Power Plant Technology	
<b>Any Engineering Foundational course from above or Electives:</b>		<b>3</b>
BSE 460	Biorefining: Energy and Products from Renewable Resources	
CBE/M E 567	Solar Energy Technology	
CIV ENGR/ G L E 421	Environmental Sustainability Engineering	
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design	
E C E 427	Electric Power Systems	
M E 461	Thermal Systems Modeling	
M E 466	Air Pollution Effects, Measurements and Control	
or CIV ENGR 42 Air Pollution Effects, Measurement and Control		
N E 571	Economic and Environmental Aspects of Nuclear Energy	

### Seminar (1 credit)

Code	Title	Credits
E P 418	Sustainable Energy Challenges and Solutions	1
CBE 555	Seminar-Chemical Engineering Connections	1

### Capstone (optional 3 credits)

Students may request to count no more than 3 credits of applied coursework toward the 16-credit total through an optional Capstone course. This course must be approved by the certificate's faculty chair in consultation with the certificate's oversight committee. Students must submit a description of their course project, demonstrating application of at least one of the certificate's learning outcomes. Details of the project will be verified with the course instructor. Courses that may qualify include:

- Senior Design Project or Capstone
- Independent Study
- Honors Thesis

To submit a Capstone course request, complete this online course substitution form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_9tYyECXdgTwBAs5/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_9tYyECXdgTwBAs5/)). Course substitution requests may be submitted any time, but should be submitted as early as possible once there are sufficient details (such as a course syllabus or a project description) that demonstrate how the course or project aligns with the certificate's learning outcomes.

- COURSE SUBSTITUTION FORM ([HTTPS://UWMADISON.CO1.QUALTRICS.COM/JFE/FORM/SV\\_9TYYECCXDGTWBAS5/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_9tYyECXdgTwBAs5/))

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Understand the physical properties and processes related to energy resources and the conversion technologies involved.
2. Understand how energy decisions are impacted by environmental, social, economic or political factors.
3. Synthesize knowledge of the technical/physical aspects of energy with the social/environmental factors to analyze how energy choices impact the sustainability of energy systems.
4. Apply interdisciplinary energy knowledge to analyze, design or solve a matter of real world significance related to sustainability of energy use.

## ENGINEERING PHYSICS, B.S.

As an engineering physics major, you'll dive into research alongside professors who work at the frontier of translating emerging science into novel technologies. With a curriculum designed specifically to launch your research career and a tight-knit community of scholars, you'll find a supportive environment to pursue a flexible math and physics-centered curriculum and publish an undergraduate thesis. The engineering physics major is ideal for students who are already thinking about graduate school and want the flexibility to design their undergraduate experience to support that goal—but it also prepares students to join high-tech startup companies developing new technologies.

Students choose from three flexible focus areas: nanoengineering, plasma science and engineering, and scientific computing, that include graduate-level courses and laboratory experiences. Students in nanoengineering take courses in physics, material science, engineering mechanics, and electrical engineering to learn how to design, build and use innovative devices and structures at the nanoscale. Plasma science and engineering students join one of the largest university plasma and fusion communities in the world, with collaborations between physics, electrical engineering, and nuclear engineering, and world-leading facilities. Scientific computing can be applied to nearly every discipline in science, combining modern computing practices with scientific discovery in research groups across campus.

As some of our best and brightest engineering students, EP majors move quickly through fundamental math and physics courses, opening the door for more advanced courses that support their research interests. With more flexibility than most engineering majors, each student works with their faculty advisor to find a selection of courses that is tuned to their specific research needs. The senior thesis is a defining aspect of this program, where students summarize their research findings and present them to a committee of professors, and possibly publish a paper in a scientific journal.

At the heart of the engineering physics program is a small learning community where students develop skills for conducting original research, with support from faculty and peers. The curriculum is designed to bring sophomores, juniors and seniors together in a community where younger students learn from the general research experiences of their more senior counterparts. In addition, every student joins a research group where graduate students, post-docs, scientists and faculty members support the specific skills and expertise needed for their research. Nearly all of our graduates go on to graduate degrees at the best universities in the US and around the world, and ultimately in careers in a variety of fields in academia, industry or national laboratories.

## THE OBJECTIVES OF THE ENGINEERING PHYSICS PROGRAM ARE TO:

- Educate students to think and participate deeply, creatively, and analytically in emerging areas of engineering technology.
- Educate students in the basics of instrumentation, design of laboratory techniques, measurement, data acquisition, interpretation, and analysis.
- Educate students in the methodology of research.
- Provide and facilitate teamwork and multidisciplinary experiences throughout the curriculum.
- Foster the development of effective oral and written communication skills.
- Expose students to environmental, ethical and contemporary issues.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are

considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SUMMARY OF REQUIREMENTS

The following curriculum applies to students who entered the program after fall 2018.

Code	Title	Credits
	Mathematics and Statistics	25
	Science	28
	Engineering Science	25
	Focus Area	22
	Technical Electives	6
	Communication Skills	8
	Liberal Studies	16
<b>Total Credits</b>		<b>130</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221 or MATH 217 or MATH 275	Calculus and Analytic Geometry 1 Calculus with Algebra and Trigonometry II Topics in Calculus I	5
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	4
MATH 234	Calculus--Functions of Several Variables	4
MATH 319	Techniques in Ordinary Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
MATH 340 or MATH 341	Elementary Matrix and Linear Algebra Linear Algebra	3
STAT 324 or STAT 311 or STAT/ MATH 431	Introductory Applied Statistics for Engineers Introduction to Theory and Methods of Mathematical Statistics I Introduction to the Theory of Probability	3
<b>Total Credits</b>		<b>25</b>

## SCIENCE

Code	Title	Credits
Select one of the following:		5-10
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202 or PHYSICS 208	General Physics General Physics	5
PHYSICS 241 or PHYSICS 205	Introduction to Modern Physics Modern Physics for Engineers	3
PHYSICS 322	Electromagnetic Fields	3
E P 271 or COMP SCI 200 or COMP SCI 220 or COMP SCI 310	Engineering Problem Solving I Programming I Data Science Programming I Problem Solving Using Computers	3

M S & E 351 or CBE 440	Materials Science-Structure and Property Relations in Solids Chemical Engineering Materials	3
N E 305 or PHYSICS 531	Fundamentals of Nuclear Engineering Introduction to Quantum Mechanics	3
Computing Elective (select one)		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods (required for students in Scientific Computing Focus Area)	
E P/E M A 471	Intermediate Problem Solving for Engineers	
E P/E M A 476	Introduction to Scientific Computing for Engineering Physics	

**Total Credits 28-33**

## ENGINEERING SCIENCE

Code	Title	Credits
E M A 201 or PHYSICS 201 or PHYSICS 207	Statics General Physics General Physics	3
PHYSICS 311 or E M A 202 or M E 240	Mechanics Dynamics Dynamics	3
E M A 303 or M E 306	Mechanics of Materials Mechanics of Materials	3
E M A/M E 307	Mechanics of Materials Lab	1
M E 361 or M S & E 330	Thermodynamics Thermodynamics of Materials	3
E C E 376 or PHYSICS 321	Electrical and Electronic Circuits Electric Circuits and Electronics	3
M E 363	Fluid Dynamics	3
M E 364 or M S & E 331	Elementary Heat Transfer Transport Phenomena in Materials	3
N E 231	Introduction to Nuclear Engineering	3

**Total Credits 25**

1

This requirement can also be satisfied with a different introductory engineering course

## FOCUS AREA

### Research and Development/Senior Thesis Expectations for Research Projects

Completion of the engineering physics degree program requires satisfactory completion of the E P 468 Introduction to Engineering Research, E P 469 Research Proposal in Engineering Physics, E P 568 Research Practicum in Engineering Physics I, and E P 569 Research Practicum in Engineering Physics II coursework sequence, which culminates in a senior research thesis. The research topic chosen by the student and agreed upon by the advisor should be on a topic connected to the chosen Focus Area. The research conducted should be such that the student participates in the creation of new knowledge, experiences the excitement of the research process, and makes a contribution so

that it would be appropriate to include the student's name on a scholarly publication if one results from the research.

### Senior Thesis

A senior thesis, completed during enrollment in E P 569 Research Practicum in Engineering Physics II is required. The senior thesis is a written document reporting on a substantial piece of work. It should be written in the style of a graduate thesis. The faculty advisor, in consultation with a research mentor, determines the grade which the student receives for the thesis. A bound copy of the thesis must be submitted to the engineering physics department office.

On or before the Friday of finals week of the semester in which E P 569 Research Practicum in Engineering Physics II is taken, the senior thesis must be presented orally by the student to a committee of three professors in a publicly announced seminar. Interested faculty and students will be invited to attend.

### Research and Development

Code	Title	Credits
<i>Research and Development</i>		8
E P 468	Introduction to Engineering Research	1
E P 469	Research Proposal in Engineering Physics	1
E P 568	Research Practicum in Engineering Physics I	3
E P 569	Research Practicum in Engineering Physics II	3

### Focus Area Electives Nanoengineering

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>Required:</i>		
PHYSICS 551	Solid State Physics	3
<i>At Least One of:</i>		
E P/E M A 615	Micro- and Nanoscale Mechanics	3
M S & E 553	Nanomaterials & Nanotechnology	3
<i>At Least One of:</i>		
E M A 506	Advanced Mechanics of Materials I	3
E M A 622	Mechanics of Continua	3
E M A 519	Fracture Mechanics	3
<i>At Least One of:</i>		
M S & E 448	Crystallography and X-Ray Diffraction	3
E M A 611	Advanced Mechanical Testing of Materials	3
M E 601	Special Topics in Mechanical Engineering (Micro & Nano Fabrication)	1-3
N E 602	Special Topics in Reactor Engineering (Vacuum Technology Lab)	0-3
PHYSICS 623	Electronic Aids to Measurement	4
PHYSICS 625	Applied Optics	4
M S & E 748	Structural Analysis of Materials	3

*Open Electives:*

M S & E 333	Microprocessing of Materials	3
E C E 335	Microelectronic Devices	3
M S & E 434	Introduction to Thin-Film Deposition Processes	3
M S & E 441	Deformation of Solids	3
E C E 445	Semiconductor Physics and Devices	3
M S & E 451	Introduction to Ceramic Materials	3
E M A/M S & E 541	Heterogeneous and Multiphase Materials	3
M S & E 560	Fundamentals of Atomistic Modeling	3
M S & E 570	Properties of Solid Surfaces	3
CHEM 630	Selected Topics in Analytical Chemistry	1-3
M S & E 756	Structure and Properties of Advanced Electronic Materials	3

### Plasma Science and Engineering

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>Required:</i>		
N E/E C E/ PHYSICS 525	Introduction to Plasmas	3
<i>At Least One of:</i>		
N E/E C E/ PHYSICS 527	Plasma Confinement and Heating	3
N E/E C E 528	Plasma Processing and Technology	3
<i>At Least One of:</i>		
N E 526	Laboratory Course in Plasmas	3
<i>Open Electives:</i>		
N E 408	Ionizing Radiation	3
N E 536	Feasibility St of Power from Controlled Thermonuclear Fusion	3
Any plasma-related special topics course in NE		
PHYSICS 415	Thermal Physics	3
PHYSICS 623	Electronic Aids to Measurement	4
PHYSICS 625	Applied Optics	4
N E/E C E/ PHYSICS 724	Waves and Instabilities in Plasmas	3
N E/E C E/ PHYSICS 725	Plasma Kinetic Theory and Radiation Processes	3
N E/E C E/ PHYSICS 726	Plasma Magnetohydrodynamics	3

### Scientific Computing

Code	Title	Credits
<i>Focus Area Total Credits:</i>		14
<i>At Least One of:</i>		
N E/MED PHYS 506	Monte Carlo Radiation Transport	3
M E 573	Computational Fluid Dynamics	3
E M A 605	Introduction to Finite Elements	3
E C E 742	Computational Methods in Electromagnetics	3

*At Least One of:*

Students must take at least two credits of laboratory experience in the Physical or Biological Sciences beyond the required chemistry and mechanics of materials courses

*Open Electives:*

E P/E M A 476	Introduction to Scientific Computing for Engineering Physics	3
COMP SCI 300	Programming II	3
COMP SCI/ MATH 513	Numerical Linear Algebra	3
COMP SCI/ MATH 514	Numerical Analysis	3
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	3
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	3
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks	3
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning	3
COMP SCI 577	Introduction to Algorithms	4
COMP SCI/ MATH 714	Methods of Computational Mathematics I	3
COMP SCI/ MATH 715	Methods of Computational Mathematics II	3
M S & E 560	Fundamentals of Atomistic Modeling	3
M E 459	Computing Concepts for Applications in Engineering	3
M E/COMP SCI/ E C E/E M A/ E P 759	High Performance Computing for Applications in Engineering	3

Any scientific-computing-related special topics course in NE

**TECHNICAL ELECTIVE**

Code	Title	Credits
Select 6 credits from:		6

- Co-op (no more than 3 credits)
- Courses numbered 300+ in the CoE except for E P D/ INTEREGR
- Courses numbered 300+ in MATH, PHYSICS, COMP SCI, STAT (except STAT 301), ASTRON, MED PHYS, and CHEM departments

Students may also propose any class that they feel will benefit their education path with pre-requisite of two physics or calculus classes. For these courses the advisor will review the request and if approved, recommend a DARS substitution.

**COMMUNICATION SKILLS**

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or COM ARTS 100	Introduction to Speech Composition	
or LSC 100	Science and Storytelling	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2

INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

**LIBERAL STUDIES**

Code	Title	Credits
Complete Requirements (p. 244) <sup>1</sup>		

**1**

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectareas/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

**TOTAL CREDITS: 130-132**

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

**UNIVERSITY DEGREE REQUIREMENTS**

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering research practices to produce results that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to apply experimental, theoretical, and computational methods to address scientific and engineering objectives
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>	5	E M A 201 or PHYSICS 201	3-5
MATH 221	5	MATH 222	4
Communications A	3	N E 231 <sup>2</sup>	3
N E 231 <sup>2</sup>	3	or Liberal Studies Elective	
or Liberal Studies Elective		STAT 324	3
<b>16</b>		<b>13-15</b>	

#### Second Year

Fall	Credits	Spring	Credits
E P 468 <sup>3</sup>	1	MATH 319	3
MATH 234	4	PHYSICS 205 or 241	3
PHYSICS 202	5	E M A 202 or PHYSICS 311	3
M S & E 351	3	E M A 303	3
E P D 275	2	E M A/M E 307	1
E P 271	3	Liberal Studies Elective	3
<b>18</b>		<b>16</b>	

#### Third Year

Fall	Credits	Spring	Credits
N E 305 <sup>5</sup>	3	PHYSICS 531 <sup>5</sup>	3
or Technical Elective		or Technical Elective	
MATH 321	3	MATH 340 or 341	3
M E 361 or M S & E 330	3-4	Liberal Studies Elective	4

PHYSICS 322 <sup>4</sup>	3	Advanced Computer Science	3
E C E 376 or PHYSICS 321	3-4	E P Focus Area Course	3
E P 469	1		

**16-18**

**16**

#### Fourth Year

Fall	Credits	Spring	Credits
E P 568	3	E P 569	3
M E 363	3	M E 364 or M S & E 331	3
E P Focus Area Course	3	E P Focus Area Course	2
E P Focus Area Course	3	E P Focus Area Course	3
Technical Elective	3	INTEREGR 397	3
Liberal Studies Elective	3	Liberal Studies Elective	3
<b>18</b>		<b>17</b>	

#### Total Credits 130-134

**1**

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute this with CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits.

**2**

Students who were not able to take an introductory engineering course as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the departments of Chemistry, Computer Sciences, Mathematics, and Physics.

**3**

Students are encouraged to take E P 468 Introduction to Engineering Research during their second year to allow for more flexibility in the research sequence.

**4**

Topics from MATH 321 Applied Mathematical Analysis are applied in PHYSICS 322 Electromagnetic Fields, and some students may find it helpful to take PHYSICS 322 Electromagnetic Fields after MATH 321 Applied Mathematical Analysis if PHYSICS 322 Electromagnetic Fields is not required for focus area courses.

**5**

Students in the nanoengineering focus area should take PHYSICS 531 Introduction to Quantum Mechanics.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

Continuing students who have fulfilled the progression requirements will also be assigned an Engineering Physics faculty advisor. Before enrolling in courses each semester, students must meet with their faculty advisor for assistance in planning courses and reviewing degree requirements. Faculty advisors are a valuable resource, as they can provide students with

in-depth guidance on course content, internship and job opportunities, research, and more.

## ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Paul Wilson (Chair)  
Wendy Crone  
Chris Hegna  
Oliver Schmitz  
Carl Sovinec  
Kumar Sridharan

### ASSOCIATE PROFESSORS

Adrien Couet

### ASSISTANT PROFESSORS

Stephanie Diem  
Juliana Pacheco Duarte  
Benedikt Geiger  
Ben Lindley  
Yongfeng Zhang

See also Nuclear Engineering & Engineering Physics Faculty Directory (<https://directory.engr.wisc.edu/need/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Fluid Mechanics and Heat Transfer Laboratories  
Instructional Computing Labs (in Computer Aided Engineering)  
Nanomechanics Laboratory  
Nuclear Instrumentation Laboratory  
Plasma Physics Laboratories  
Superconductivity and Cryogenics Laboratories

### SCHOLARSHIPS

The Department of Nuclear Engineering & Engineering Physics and the College of Engineering have several types of scholarships available to incoming and current engineering students. Students should explore the Wisconsin Scholarship Hub (WiSH), where you can apply to and find specific information on scholarships at UW-Madison. You can use

WiSH to find engineering scholarships available through the College of Engineering; the Inclusion, Equity, and Diversity in Engineering Student Center; the Nuclear Engineering & Engineering Physics Department; and other UW and external organizations. (Please note: students must be currently enrolled in, or have applied to, the College of Engineering to be considered for engineering scholarships.) To be matched with these available scholarship funds an application is required and the system is typically open to students in the spring of each year. Questions on the process can be directed to: [coescholarships@engr.wisc.edu](mailto:coescholarships@engr.wisc.edu). Additional financial assistance may be awarded through the Office of Student Financial Aid (333 E. Campus Mall RM 9701, 262-3060).

## NUCLEAR ENGINEERING MATERIALS, CERTIFICATE

The goal of this certificate is to combine a comprehensive set of course curricula that will provide students with an understanding of the challenges and remedial measures associated with materials in nuclear energy systems. It includes courses in radiation damage, nuclear fuel performance, corrosion, and joining/welding. A laboratory course will provide hands-on experimental analysis in the areas of corrosion, welding, radiation damage, and non-destructive evaluation.

## HOW TO GET IN

Students must complete the Certificate Declaration Form (<https://engineering.wisc.edu/programs/certificates/nuclear-engineering-materials/declaration/>). Contact Professor Adrien Couet, Department of Nuclear Engineering & Engineering Physics, 921 Engineering Research Building, for further information.

## REQUIREMENTS

Code	Title	Credits
<b>Required courses (4 credits - must be taken for a letter grade)</b>		
N E/M S & E 423	Nuclear Engineering Materials <sup>1</sup>	3
N E 424	Nuclear Materials Laboratory	1
<b>Elective courses (minimum 12 credits - must be taken for a letter grade)</b>		
CIV ENGR 445	Steel Structures I	3
CIV ENGR 447	Concrete Structures I	3
E M A 303	Mechanics of Materials	3
M S & E 330	Thermodynamics of Materials	4
M S & E 352	Materials Science-Transformation of Solids	3
M S & E/N E 433	Principles of Corrosion	3
M S & E 460	Introduction to Computational Materials Science and Engineering	3
M S & E/M E 462	Welding Metallurgy	3
M S & E 463	Materials for Elevated Temperature Service	3
M S & E 570	Properties of Solid Surfaces	3
N E 541	Radiation Damage in Metals	3

N E 545	Materials Degradation in Advanced Nuclear Reactor Environments	3
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1

Because M S & E 350 Introduction to Materials Science or M S & E 351 Materials Science-Structure and Property Relations in Solids are prerequisites for N E/M S & E 423 Nuclear Engineering Materials, students are expected to take one of the two of these courses as prerequisites for the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Identify the challenges and remedial measures associated with materials in nuclear energy systems by integrating the contents within each class into a complete understanding.
2. Describe and apply basic radiation damage, nuclear fuel performance, corrosion, and joining/welding concepts.
3. Design and conduct basic hands-on experiments in the areas of nuclear materials characterization.
4. Discuss scientifically and confidently about nuclear materials degradation issues with experts.

## NUCLEAR ENGINEERING, B.S.

Nuclear engineers harness the strongest forces of nature to tackle some of society's biggest challenges. Our curriculum gives students depth and breadth to keep up with rapidly changing technology, and our close-knit learning community supports our students' success during their degree and as they launch their careers. The radiation sciences option (p. 357) provides a pathway for careers in medical applications of radiation.

Nuclear energy is the largest source of clean electricity in the United States and new technologies will allow its impact to grow as we decarbonize our economy. Most nuclear engineers design, build and operate nuclear power plants—today based on fission of uranium, but in the future, based on fusion of hydrogen. With no greenhouse gas emissions, nuclear energy is a reliable and predictable partner to other clean electricity, like wind, solar and hydro. Nuclear power sources have even more potential as new technologies and are deployed to remove carbon emissions from industrial processes like hydrogen production, water desalination, and steel manufacturing.

With radiation from man-made radioisotopes and particle accelerators, we can diagnose and treat cancer and other diseases. Nuclear engineers in the radiation sciences option (p. 357) design systems to generate radioactive tracers that can be injected into patients to pinpoint tumors, stress fractures, and cardiac diseases, while others build accelerators that deliver radiation precisely to diseased tissue while avoiding sensitive organs. Talk to your academic advisor about declaring the Radiation Sciences option. Students must have, and are expected to maintain, a 3.0 cumulative GPA.

Today's rovers on Mars are powered by nuclear power sources and tomorrow's spacecrafts will need nuclear power to transport humans far into space. Nuclear engineers build radioisotope thermal generators that provide nonstop power with no moving parts to deep-space probes and planetary vehicles, allowing missions that last for many years. Nuclear space propulsion cuts the travel time to other planets by months and surface power ensures reliable energy once the spacecraft lands.

Using advanced radiation detection systems, we can seek out explosives and nuclear weapons being smuggled in shipping containers. Nuclear engineers combine sources and detectors that use penetrating radiation that not only can see objects through thick shields, but can also determine the composition of the items inside. Additionally, they use machine learning and artificial intelligence to combine the signals from these systems for even more insight.

Our curriculum starts with an Introduction to Nuclear Engineering designed for first year students to learn about a variety of technical nuclear topics and also to engage with some societal challenges. Later on, the curriculum focuses on the deepest physics and math base in the College of Engineering to prepare our graduates for careers with constantly evolving technologies based on the newest scientific discoveries. We transition from these fundamentals to more applied topics in radiation transport, thermal systems, materials science, imaging and detectors, while students build skills in computational modeling and simulation. All of our students also take at least one course that offers an experience with the UW Nuclear Reactor. Students in the radiation sciences option will complete their degree with graduate courses from the internationally recognized Medical Physics program. This interdisciplinary degree program overlaps with other engineering disciplines, allowing our graduates to transition into a variety of industries and careers.

Small class sizes allow students and professors to get to know each other in a supportive learning community starting in their first year. Many students participate in undergraduate research across one of the biggest research portfolios in the College of Engineering. Faculty collaborations with companies in nuclear science and technology—both established and newcomers, as well as the country's national laboratories—provide a professional network that helps students find internships and launch their careers.

### NUCLEAR ENGINEERING PROGRAM EDUCATIONAL OBJECTIVES

The faculty recognize that our graduates will choose to use the knowledge and skills they have acquired during their undergraduate years to pursue a wide variety of career and life goals and we encourage this diversity of paths. Regarding the Nuclear Engineering program, we initially expect graduates will begin their careers in fields that utilize their knowledge, education and training in the interaction of radiation with matter as it applies to power generation, health and medical physics, security and safeguards and other engineering fields.

Whatever path our graduates choose to pursue, our educational objectives for the nuclear engineering program are to allow them to:

1. Exhibit strong performance and continuous development in problem-solving, leadership, teamwork, and communication, initially applied to nuclear engineering, and demonstrating an unwavering commitment to excellence.
2. Demonstrate continuing commitment to, and interest in, his or her training and education, as well as those of others.



3. Transition seamlessly into a professional environment and make continuing, well-informed career choices.
4. Contribute to their communities.

## HOW TO GET IN

### ADMISSION TO THE COLLEGE AS A FRESHMAN

Students applying to UW–Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission to a major means students will start in the program of their choice in the College of Engineering and will need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

### CROSS-CAMPUS TRANSFER TO ENGINEERING

UW–Madison students in other schools and colleges on campus must meet minimum admission requirements (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for admission consideration to engineering degree granting classifications. Cross-campus admission is competitive and selective, and the grade point average expectations may increase as demand trends change. The student's overall academic record at UW–Madison is also considered. Students apply to their intended engineering program by submitting the online application by stated deadlines for spring and fall. The College of Engineering offers an online information tutorial and drop-in advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

### OFF-CAMPUS TRANSFER TO ENGINEERING

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their major in the college. Transfer admission to the College of Engineering is competitive and selective, and students who have exceeded the 80 credit limit at the time of application are not eligible to apply.

The College of Engineering has dual degree programs with select four-year UW System campuses. Eligible dual degree applicants are not subject to the 80 credit limit.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer Coordinator in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu) or 608-262-2473.

## SECOND BACHELOR'S DEGREE

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.

## RADIATION SCIENCES DECLARATION

Talk to your academic advisor about declaring the Radiation Sciences (p. 357) option. Students must have and are expected to maintain a 3.0 cumulative GPA.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

The nuclear engineering curriculum emphasizes nuclear power and is appropriate for students seeking careers in the nuclear power industry.

There is also a Radiation Sciences option (p. 355) available for students interested in medical and other non-power applications.

The following curriculum applies to students who entered the program starting in Fall 2020.

## SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	22
	Science	13
	Engineering Science	31
	Nuclear Engineering Core	28

Nuclear Engineering Electives	8
Introduction to Engineering	3
Communication Skills	8
Liberal Studies	16
<b>Total Credits</b>	<b>129</b>

## MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>22</b>

## SCIENCE

Code	Title	Credits
Select one of the following:		5-9
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
PHYSICS 241	Introduction to Modern Physics	3
or PHYSICS 205	Modern Physics for Engineers	
<b>Total Credits</b>		<b>13-17</b>

## ENGINEERING SCIENCE

Code	Title	Credits
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E P 271	Engineering Problem Solving I	3-4
or COMP SCI 200	Programming I	
or COMP SCI 220	Data Science Programming I	
or COMP SCI 310	Problem Solving Using Computers	
M S & E 350	Introduction to Materials Science	3
M E 231	Geometric Modeling for Design and Manufacturing	3
M E 361	Thermodynamics	3
Select one of the following:		4-6
CBE 320	Introductory Transport Phenomena	
M E 363 & M E 364	Fluid Dynamics and Elementary Heat Transfer	

E C E 376	Electrical and Electronic Circuits <sup>1</sup>	3
Computing Elective (select one of the following):		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods	
E M A/E P 471	Intermediate Problem Solving for Engineers	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	

**Total Credits** **31-34**

1

PHYSICS 321 Electric Circuits and Electronics is an acceptable substitute for E C E 376 Electrical and Electronic Circuits.

## NUCLEAR ENGINEERING CORE

Code	Title	Credits
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3
N E 408	Ionizing Radiation	3
N E 411	Nuclear Reactor Engineering	3
N E 412	Nuclear Reactor Design	5
N E/M S & E 423	Nuclear Engineering Materials	3
N E 424	Nuclear Materials Laboratory	1
N E 427	Nuclear Instrumentation Laboratory	2
N E 428	Nuclear Reactor Laboratory	2
N E 571	Economic and Environmental Aspects of Nuclear Energy	3

**Total Credits** **28**

## NUCLEAR ENGINEERING ELECTIVES

Code	Title	Credits
<i>Nuclear Engineering Electives</i>		6
Select credits from Nuclear Engineering Electives Course List below		
<i>Technical Electives (not to be confused with Nuclear Engineering Electives) choose 2 credits from:</i>		2
N E 1	Cooperative Education Program (no more than 3 credits)	
Courses numbered 300+ in the CoE except for E P D/ INTEREGR		
Courses numbered 300+ in MATH, PHYSICS, COMP SCI, STAT (except STAT 301), ASTRON, MED PHYS, and CHEM departments		
Students may also propose any class that they feel will benefit their education path with pre-requisite of two physics or calculus classes. For these courses the advisor will review the request and if approved, recommend a DARS substitution.		
<b>Total Credits</b>		<b>8</b>

## Nuclear Engineering Electives Course List<sup>1</sup>

Code	Title	Credits
N E 234	Principles and Practice of Nuclear Reactor Operations	4
N E 406	Nuclear Reactor Analysis	3

N E/M S & E 433	Principles of Corrosion	3
N E/MED PHYS 506	Monte Carlo Radiation Transport	3
M E/N E 520	Two-Phase Flow and Heat Transfer	3
N E/E C E/ PHYSICS 525	Introduction to Plasmas	3
N E 536	Feasibility St of Power from Controlled Thermonuclear Fusion	3
N E 541	Radiation Damage in Metals	3
N E 545	Materials Degradation in Advanced Nuclear Reactor Environments	3
N E 550	Advanced Nuclear Power Engineering	3
N E 555	Nuclear Reactor Dynamics	3
N E/M E 565	Power Plant Technology	3
N E/MED PHYS 569	Health Physics and Biological Effects	3-4
N E/I SY E 574	Methods for Probabilistic Risk Analysis of Nuclear Power Plants	3
N E 602	Special Topics in Reactor Engineering	3

Students are encouraged to access the online N E future course offering grid to plan their future course schedules and to confirm the offering of a course in the table.

#### 1

Courses meeting the Nuclear Engineering Electives requirement are all N E courses numbered above 200 that are not part of the required curriculum. No more than 3 credits of N E 699 Advanced Independent Study may be used to meet this requirement. (Refer to the NE handbook under Degree Information on the NEEP department website (<https://docs.google.com/document/u/1/d/e/2PACX-1vRMI-zHWwv19rf6wMx2E5Nzdn1Awf0ZHG6pK-QXTSRfsD-I3kYuBBCOMZbiWt9vcLejeTxBQQHEJZVs/pub/>)).

## INTRODUCTION TO ENGINEERING

Code	Title	Credits
N E 231	Introduction to Nuclear Engineering	3
<b>Total Credits</b>		<b>3</b>

## COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

## LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 244) <sup>1</sup>		16
<b>Total Credits</b>		<b>16</b>

#### 1

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectarea/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. Note: Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

## NAMED OPTION

Talk to your academic advisor about declaring the Radiation Sciences option. Students must have and are expected to maintain a 3.0 cumulative GPA.

View as listView as grid

- NUCLEAR ENGINEERING: RADIATION SCIENCES (P. 357)

## HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn an Honor in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4
Communication A		3 M E 231	3
Liberal Studies Elective		3 M S & E 350	3
		N E 231	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
PHYSICS 202		5 PHYSICS 241 or 205	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271 or COMP SCI 310		3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105		2 N E 424	1
		Liberal Studies Elective	3
	<b>17</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
N E 305		3 N E 405	3
MATH 321		3 N E 408	3

STAT 324 <sup>5</sup>		3 CBE 320 <sup>6</sup>	4
Technical Elective		2 Computing Elective	3
Liberal Studies Elective		4 E C E 376	3
	<b>15</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
N E 411		3 N E 412	5
N E 427		2 N E 428	2
N E/M S & E 423		3 N E 571	3
Nuclear Engineering Elective		3 Nuclear Engineering Elective	3
Liberal Studies Elective		3 Liberal Studies Elective	3
INTEREGR 397		3	
	<b>17</b>		<b>16</b>

#### Total Credits 129

#### 1

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits. Three credits of CHEM 103/CHEM 104 may be counted towards Technical Electives credits.

#### 2

Students who were not able to take N E 231 Introduction to Nuclear Engineering as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the Departments of Chemistry, Computer Sciences, Mathematics, and Physics.

#### 3

Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

#### 4

After completing E M A 201 Statics, students may take E M A 202 Dynamics and E M A 303 Mechanics of Materials in either order or concurrently.

#### 5

STAT 311 Introduction to Theory and Methods of Mathematical Statistics I or STAT/M E 424 Statistical Experimental Design are acceptable substitutes.

#### 6

M E 363 Fluid Dynamics and M E 364 Elementary Heat Transfer are acceptable substitutions for CBE 320 Introductory Transport Phenomena.

## ADVISING AND CAREERS

### ADVISING

Each College of Engineering program has academic advisors dedicated to serving its students. Program advisors can help current College of Engineering students with questions about accessing courses, navigating degree requirements, resolving academic issues and more. Students can find their assigned advisor on the homepage of their student center.

Continuing students who have fulfilled the progression requirements will also be assigned a Nuclear Engineering faculty advisor. Before enrolling in courses each semester, students must meet with their faculty advisor

for assistance in planning courses and reviewing degree requirements. Faculty advisors are a valuable resource, as they can provide students with in-depth guidance on course content, internship and job opportunities, research, and more.

## ENGINEERING CAREER SERVICES

Engineering Career Services (ECS) assists students in identifying pre-professional work-based learning experiences such as co-ops and summer internships, considering and applying to graduate or professional school, and finding full-time professional employment during their graduation year.

ECS offers two major career fairs per year, assists with resume writing and interviewing skills, hosts workshops on the job search, and meets one-on-one with students to discuss offer negotiations.

Students are encouraged to utilize the ECS office early in their academic careers. For comprehensive information on ECS programs and workshops, see the ECS website or call 608-262-3471.

## PEOPLE

### PROFESSORS

Paul Wilson (Chair)  
Wendy Crone  
Chris Hegna  
Oliver Schmitz  
Carl Sovinec  
Kumar Sridharan

### ASSOCIATE PROFESSORS

Adrien Couet

### ASSISTANT PROFESSORS

Stephanie Diem  
Juliana Pacheco Duarte  
Benedikt Geiger  
Ben Lindley  
Yongfeng Zhang

See also Nuclear Engineering & Engineering Physics Faculty Directory (<https://directory.engr.wisc.edu/need/faculty/>).

## RESOURCES AND SCHOLARSHIPS

### FACILITIES

Facilities available for instruction and research include:

Nuclear Reactor Laboratory  
Nuclear Instrumentation Laboratory  
Fluid Mechanics and Heat Transfer Laboratories  
Plasma Physics Laboratories  
Instructional Computing Labs (in Computer Aided Engineering)

### SCHOLARSHIPS

The Department of Nuclear Engineering & Engineering Physics & the College of Engineering have several types of scholarships available to incoming and current engineering students. Students should explore the Wisconsin Scholarship Hub (WiSH), where you can apply to and

find specific information on scholarships at UW-Madison. You can use WiSH to find engineering scholarships available through the College of Engineering; the Inclusion, Equity, and Diversity in Engineering Student Center; the Nuclear Engineering & Engineering Physics Department; and other UW and external organizations. (Please note: students must be currently enrolled in, or have applied to, the College of Engineering to be considered for engineering scholarships.) To be matched with these available scholarship funds an application is required and the system is typically open to students in the spring of each year. Questions on the process can be directed to: [coescholarships@engr.wisc.edu](mailto:coescholarships@engr.wisc.edu). Additional financial assistance may be awarded through the Office of Student Financial Aid (333 E. Campus Mall RM 9701, 262-3060).

## ACCREDITATION

### ACCREDITATION

Accredited by the Engineering Accreditation Commission of ABET (<https://www.abet.org>), <https://www.abet.org>, under the commission's General Criteria and Program Criteria for Nuclear, Radiological, and Similarly Named Engineering Programs.

Note: Undergraduate Program Educational Objectives and Student Outcomes are made publicly available at the Departmental website. (In this Guide, the program's Student Outcomes are designated by our campus as "Learning Outcomes.")

## NUCLEAR ENGINEERING: RADIATION SCIENCES

The radiation sciences option of the nuclear engineering major (p. 352) provides a pathway for careers in medical applications of radiation. Understanding how radiation interacts with biological material is a natural extension of the nuclear engineering fundamentals in modern physics and mathematics. Many students continue to graduate school to get advanced degrees in medical physics, either at UW-Madison or elsewhere.

Radiation science students will use their engineering analysis skills on challenges that range from working with patients to developing new medical devices and equipment. Patients experience radiation to diagnose diseases as well as to treat them. In both cases it may rely on radioactive tracers injected into their bodies or on radiation exposure from outside. Deciding how to administer the radiation to maximize the benefit and minimize the harm requires skills at the intersection between medicine and nuclear engineering. Nuclear engineers in the radiation sciences option also design, analyze and build devices that will generate novel radioactive tracers, deliver radiation externally in ever more precise ways, and detect the radiation levels to ensure the accuracy of the treatments.

Following the same deep curriculum in physics and math in the early years, students in the radiation sciences option will complete their degree with graduate courses from the internationally recognized Medical Physics program. After learning the consequences of radiation interaction with both healthy and diseased tissue, students can take courses in imaging and radiation detection, the production of radiation with radioisotopes or engineered devices, and dig deeper into the use of radiation in medicine.

Talk to your academic advisor about declaring this option.

## REQUIREMENTS

The Radiation Sciences option is intended for students interested in medical and non-power applications. Students must have and are expected to maintain a 3.0 cumulative GPA.

The following curriculum applies to students who entered the program starting in Fall 2022.

### SUMMARY OF REQUIREMENTS

Code	Title	Credits
	Mathematics and Statistics	22
	Science	16
	Engineering Science	27
	Radiation Sciences Core Requirement	25
	Radiation Sciences Electives	11
	Introduction to Engineering	3
	Communication Skills	8
	Liberal Studies	16
	Free Elective	1
<b>Total Credits</b>		<b>129</b>

### MATHEMATICS AND STATISTICS

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry I	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
MATH 234	Calculus--Functions of Several Variables	4
MATH 320	Linear Algebra and Differential Equations	3
MATH 321	Applied Mathematical Analysis	3
STAT 324	Introductory Applied Statistics for Engineers	3
<b>Total Credits</b>		<b>22</b>

### SCIENCE

Code	Title	Credits
Select one of the following:		5-10
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
PHYSICS 202	General Physics	5
or PHYSICS 208	General Physics	
PHYSICS 241	Introduction to Modern Physics	3
or PHYSICS 205	Modern Physics for Engineers	
PHYSICS 322	Electromagnetic Fields	3
<b>Total Credits</b>		<b>16-21</b>

### ENGINEERING SCIENCE

Code	Title	Credits
E C E 376	Electrical and Electronic Circuits	3
or PHYSICS 321	Electric Circuits and Electronics	
E M A 201	Statics	3
E M A 202	Dynamics	3
or M E 240	Dynamics	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
E P 271	Engineering Problem Solving I	3-4
or COMP SCI 200	Programming I	
or COMP SCI 220	Data Science Programming I	
or COMP SCI 310	Problem Solving Using Computers	
M E 231	Geometric Modeling for Design and Manufacturing	3
M E 361	Thermodynamics	3
M S & E 350	Introduction to Materials Science	3
Computing Elective (select one of the following):		3
COMP SCI 300	Programming II	
COMP SCI 412	Introduction to Numerical Methods	
E M A/E P 471	Intermediate Problem Solving for Engineers	
E M A/E P 476	Introduction to Scientific Computing for Engineering Physics	
<b>Total Credits</b>		<b>27-28</b>

### RADIATION SCIENCES CORE REQUIREMENT

Code	Title	Credits
N E 305	Fundamentals of Nuclear Engineering	3
N E 405	Nuclear Reactor Theory	3
N E 408	Ionizing Radiation	3
N E 412	Nuclear Reactor Design	5
N E 424	Nuclear Materials Laboratory	1
N E 427	Nuclear Instrumentation Laboratory	2
N E 428	Nuclear Reactor Laboratory	2
N E 571	Economic and Environmental Aspects of Nuclear Energy	3
MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry	3
<b>Total Credits</b>		<b>25</b>

### RADIATION SCIENCES ELECTIVES

Code	Title	Credits
<i>Medical Physics Electives</i>		9
Select credits from Medical Physics Electives Course List below		
<i>Technical Electives (not to be confused with Medical Physics Electives) choose 2 credits from:</i>		2
N E 1	Cooperative Education Program (no more than 3 credits)	
Courses numbered 300+ in the CoE except for E P D/ INTEREGR		

Courses numbered 300+ in MATH, PHYSICS, COMP SCI, STAT (except STAT 301), ASTRON, MED PHYS, and CHEM departments

Students may also propose any class that they feel will benefit their education path with pre-requisite of two physics or calculus classes. For these courses the advisor will review the request and if approved, recommend a DARS substitution.

**Total Credits** 11

### Medical Physics Electives Course List<sup>1</sup>

Code	Title	Credits
MED PHYS/N E 506	Monte Carlo Radiation Transport	3
MED PHYS/ B M E 566	Physics of Radiotherapy	3
MED PHYS/N E 569	Health Physics and Biological Effects <sup>2</sup>	3-4
MED PHYS/ B M E 573	Mathematical Methods in Medical Physics	3
MED PHYS/ B M E 574	Data Science in Medical Physics	3
MED PHYS/ B M E 578	Non-Ionizing Diagnostic Imaging	4
MED PHYS/ B M E 580	The Physics of Medical Imaging with Ionizing Radiation	4
MED PHYS/ PHYSICS 588	Radiation Production and Detection	4
MED PHYS 671	Selected Topics in Medical Physics <sup>2</sup>	1-4
MED PHYS 701	Ethics and the responsible conduct of research and practice of Medical Physics	1

Students are encouraged to access the online N E future course offering grid to plan their future course schedules and to confirm the offering of a course in the table.

1

Courses meeting the Medical Physics Electives requirement are selected MED PHYS courses numbered 500 and above and selected PHYSICS courses numbered 400 or above. No more than 3 credits of N E 699 Advanced Independent Study may be used to meet this requirement. (Refer to the NE handbook under Degree Information on the NE department website (<https://docs.google.com/document/u/1/d/e/2PACX-1vRMi-zHWv19rf6wMx2E5Nzdn1Awf0ZHG6pK-QXTSRfsD-l3kYuBBCOMZbiWt9vcLejeTxBQQHEjZVs/pub/>)).

2

N E/MED PHYS 569 Health Physics and Biological Effects and MED PHYS 671 Selected Topics in Medical Physics are especially recommended for students in this focus area.

### INTRODUCTION TO ENGINEERING

Code	Title	Credits
N E 231	Introduction to Nuclear Engineering	3
<b>Total Credits</b>		<b>3</b>

### COMMUNICATION SKILLS

Code	Title	Credits
ENGL 100	Introduction to College Composition	3
or LSC 100	Science and Storytelling	
or COM ARTS 100	Introduction to Speech Composition	
or ESL 118	Academic Writing II	
E P D 275	Technical Presentations	2
INTEREGR 397	Engineering Communication	3
<b>Total Credits</b>		<b>8</b>

### LIBERAL STUDIES ELECTIVES

Code	Title	Credits
<b>College of Engineering Liberal Studies Requirements</b>		
Complete Requirements (p. 244) <sup>1</sup>		16
<b>Total Credits</b>		<b>16</b>

1

Students must take 16 credits that carry H, S, L, or Z breadth designators. These credits must fulfill the following subrequirements:

1. A minimum of two courses from the same subject area (<https://registrar.wisc.edu/subjectarea/>) (the description before the course number). At least one of these two courses must be designated as above the elementary level (I, A, or D) in the course listing.
2. A minimum of 6 credits designated as humanities (H, L, or Z in the course listing), and an additional minimum of 3 credits designated as social science (S or Z in the course listing). Foreign language courses count as H credits. Retroactive credits for language courses may not be used to meet the Liberal Studies credit requirement (they can be used for subrequirement 1 above).
3. At least 3 credits in courses designated as ethnic studies (lower case "e" in the course listing). These courses may help satisfy subrequirements 1 and 2 above, but they only count once toward the total required. *Note:* Some courses may have "e" designation but not have H, S, L, or Z designation; these courses do not count toward the Liberal Studies requirement.

For information on credit load, adding or dropping courses, course substitutions, pass/fail, auditing courses, dean's honor list, repeating courses, probation, and graduation, see the College of Engineering Official Regulations (<http://guide.wisc.edu/undergraduate/engineering/#policiesandregulationstext>).

### HONORS IN UNDERGRADUATE RESEARCH PROGRAM

Qualified undergraduates may earn an Honor in Research designation on their transcript and diploma by completing 8 credits of undergraduate honors research, including a senior thesis. Further information is available in the department office.

### FOUR-YEAR PLAN

#### SAMPLE FOUR-YEAR PLAN

##### First Year

Fall	Credits	Spring	Credits
CHEM 109 <sup>1</sup>		5 E M A 201 <sup>3</sup>	3
MATH 221		5 MATH 222	4

Communication A	3 M E 231	3
Liberal Studies Elective	3 M S & E 350	3
	N E 231	3
	<b>16</b>	<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
MATH 234		4 MATH 320	3
PHYSICS 202		5 PHYSICS 241 or 205	3
E M A 202 <sup>4</sup>		3 M E 361	3
E P 271 or COMP SCI 310		3 E M A 303 <sup>4</sup>	3
E P D 275 or COM ARTS 105		2 N E 424	1
		Liberal Studies Elective	3
	<b>17</b>		<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
N E 305		3 N E 405	3
MATH 321		3 N E 408	3
STAT 324 <sup>5</sup>		3 PHYSICS 322	3
Technical Elective <sup>6</sup>		2 Computing Elective	3
Liberal Studies Elective		4 E C E 376 or PHYSICS 321	3
		Free Elective	1
	<b>15</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
N E 427		2 N E 412	5
MED PHYS/ B M E/H ONCOL/ PHYSICS 501		3 N E 571	3
Medical Physics Elective		3 N E 428	2
Medical Physics Elective		3 Medical Physics Elective	3
Liberal Studies Elective		3 Liberal Studies Elective	3
INTEREGR 397		3	
	<b>17</b>		<b>16</b>

**Total Credits 129**

1

It is recommended that students take CHEM 109 Advanced General Chemistry for 5 credits. However, depending on their high school chemistry experience, students may substitute this with CHEM 103 General Chemistry I and CHEM 104 General Chemistry II for a total of 9 credits. Three credits of CHEM 103/CHEM 104 General Chemistry II may be counted as Technical Electives credits.

2

Students who were not able to take N E 231 Introduction to Nuclear Engineering as freshmen may, with the approval of their advisor, substitute a course offered in the College of Engineering or in the Departments of Chemistry, Computer Science, Mathematics, and Physics.

3

Students may substitute PHYSICS 201 General Physics, 5 credits, for E M A 201 Statics, 3 credits, with the approval of their advisor.

4

After completing E M A 201 Statics, students may complete E M A 202 Dynamics and E M A 303 Mechanics of Materials in either order or concurrently.

5

STAT 311 Introduction to Theory and Methods of Mathematical Statistics I or STAT/M E 424 Statistical Experimental Design are acceptable substitutes.

6

PHYSICS 623 Electronic Aids to Measurement is recommended for students in the Radiation Sciences focus area.

## COLLEGE OF LETTERS & SCIENCE

What's so great about a liberal arts education from UW–Madison?

For one thing, it makes for a college experience that is rich in discovery, exploration, personal growth, and new ideas.

But while your courses may be fascinating, liberating, eye-opening and mind-blowing, a liberal arts degree from UW–Madison keeps working for you long after you have graduated.

By pursuing a degree in the liberal arts—a bachelor of arts or a bachelor of science—you are preparing for long-term satisfaction in work and in life. A liberal arts degree is a journey of self-discovery, as you explore new topics and discuss ideas with a wide range of people. You delve deeply into a broad range of subjects beyond just your major. When you graduate, you aren't narrowly prepared for one field. You've developed writing, presentation, and analytical skills. You've been exposed to the scientific method, as well as literary analysis. A chemistry major, for example, will also graduate with knowledge of a language, history, social science, the arts, and more.

**WHY DOES THIS MATTER?**

Because the more you know, the more curious you become. Curious people seek opportunities to enrich and expand their lives. Learning leads to conversation, dialogue, innovation, advancement. Employers value liberal arts majors because they are problem-solvers, out-of-the-box thinkers, and good communicators.

**CAN A 4-YEAR DEGREE FROM L&S REALLY OPEN DOORS WITH EMPLOYERS?**

Absolutely. Based on a recent L&S alumni survey rigorously designed and administered by the university's nationally renowned survey center, our graduates' employment rates are on par with the School of Business and the College of Engineering, and out-perform the national average for university graduates. They work for an extremely wide range of fields, including technology, corporate management, education, and nonprofits.

L&S alumni also report high job satisfaction and believe that their academic preparation gave them an advantage compared to employees from other colleges and universities.

Students in the College of Letters & Science have an additional built-in career advantage. SuccessWorks, the L&S center for personal professional development (<https://successworks.wisc.edu/>), makes it possible for every L&S student to channel the breadth and depth of



knowledge they gain during their time at UW into meaningful, rewarding lives and careers.

There is nothing like SuccessWorks in any other school or college at UW, or at most other universities around the country. SuccessWorks Career Communities (<https://successworks.wisc.edu/what-are-career-communities/>) encourage students to explore jobs and fields where alumni have built fulfilling careers, then dive deep into building skills and experiences once they have discovered the right paths for them. Each Career Community connects students to an advisor with specific expertise, plus a network of supportive alumni mentors and highly engaged employers seeking to hire L&S students for jobs and internships.

We start where *you* are - and go from there, wherever it takes you in your life and career.

### **BUT WE VALUE LEARNING FOR ITS OWN SAKE, HERE.**

You will never regret your liberal arts degree from UW–Madison, because it gives you the opportunity to explore subjects that fascinate you, as well as prepare you for a successful career. You will connect with wonderful faculty from 125 departments, programs, centers and institutes, whose mentoring and teaching will influence your goals and direction. And you will gain an appreciation for learning that will last a lifetime.

The University of Wisconsin–Madison is one of the great universities of the world, and the College of Letters & Science (<http://www.ls.wisc.edu/>) is at its center. Students who earn a bachelor of arts or bachelor of science degree in the College of Letters & Science (L&S) complement their broad study in the liberal arts and sciences with in-depth study of one or more particular fields, or "majors." Majors range from African cultural studies to philosophy in the humanities, from astronomy to zoology in the natural sciences, and from African American studies to sociology in the social sciences.

In addition to the bachelor of arts and bachelor of science degrees available in L&S, the college also offers a limited number of special degrees. These programs often have additional admission requirements and require completion of additional requirements in the major.

Finally, a wide array of certificate programs are also available for students who have special interests in such diverse topics as integrated liberal studies; international, global, and area studies; religious, ethnic, and gender studies; and more.

## DEGREES/MAJORS/CERTIFICATES

**NOTE: Major requirements are the same whether a student pursues a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree.**

- African American Studies, B.A. (p. 383)
- African American Studies, B.S. (p. 387)
- African American Studies, Certificate (p. 391)
- African Cultural Studies, B.A. (p. 393)
- African Cultural Studies, B.S. (p. 398)
- African Studies, Certificate (p. 896)
- American Indian and Indigenous Studies, Certificate (p. 404)
- Anthropology, B.A. (p. 407)
- Anthropology, B.S. (p. 412)
- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 1150)
- Applied Social Science, BLS (p. 1112)
- Archaeology, Certificate (p. 417)
- Art History, B.A. (p. 420)
- Art History, B.S. (p. 428)
- Art History, Certificate (p. 436)
- Asian American Studies, Certificate (p. 440)
- Asian Languages and Cultures, B.A. (p. 443)
- Asian Languages and Cultures, B.S. (p. 455)
- Astronomy–Physics, B.A. (p. 498)
- Astronomy–Physics, B.S. (p. 502)
- Atmospheric and Oceanic Sciences, B.A. (p. 506)
- Atmospheric and Oceanic Sciences, B.S. (p. 511)
- Biochemistry, B.A. (L&S) (p. 1115)
- Biochemistry, B.S. (L&S) (p. 1124)
- Biology Core Curriculum Honors, Certificate (p. 534)
- Biology, B.A. (L&S) (p. 1025)
- Biology, B.S. (L&S) (p. 1044)
- Botany, B.A. (p. 536)
- Botany, B.S. (p. 541)
- Cartography and Geographic Information Systems, B.A. (p. 774)
- Cartography and Geographic Information Systems, B.S. (p. 778)
- Chemistry, B.A. (p. 577)
- Chemistry, B.S. (p. 585)
- Chicana/o and Latina/o Studies, B.A. (p. 593)
- Chicana/o and Latina/o Studies, B.S. (p. 597)
- Chicana/o and Latina/o Studies, Certificate (p. 601)
- Chinese Professional Communication, Certificate (p. 467)
- Chinese, B.A. (p. 470)
- Chinese, B.S. (p. 476)
- Classical Humanities, B.A. (p. 604)
- Classical Humanities, B.S. (p. 610)
- Classical Studies, Certificate (p. 615)
- Classics, B.A. (p. 617)
- Classics, B.S. (p. 621)
- Communication Arts, B.A. (p. 632)
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## ENTERING THE COLLEGE

### ADMISSIONS

Any student interested in earning an undergraduate degree in the College of Letters & Science will need to apply for admission through the Office of Admissions and Recruitment at UW–Madison. Information on applying to the university as a freshman, transfer, or international student is available through the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/apply/>).

Prospective students with questions about study in the College of Letters & Science may contact L&S Academic Advising Services (<http://advising.ls.wisc.edu/>) at 608-262-5858 or Cross-College Advising Service (<https://ccas.wisc.edu/>) at 608-265-5460. Students should also feel free to contact the major department (p. 361) directly if they have specific questions about a particular major.

### TRANSFER STUDENTS

Transfer students interested in earning an undergraduate degree in the College of Letters & Science will need to apply for admission through the Office of Admissions and Recruitment at UW–Madison. Transfer students must complete all Letters & Science degree requirements. Once admitted, transfer students should obtain a copy of their DARS (<https://registrar.wisc.edu/dars-student/>) report which will explain how their transfer credits will apply toward L&S requirements. Students can request and review their DARS in the Student Center via My UW (<https://my.wisc.edu/>). Students can also request DARS for programs, majors, or certificates that they have not declared but are interested in declaring. These reports are called "what-if" reports. (Please note that some programs may not be available in DARS. For information about requirements in a program not available in DARS, contact the advisor for the particular program.)

**Please note that the DARS audit serves as the document of record (DOR) for students in the College of Letters & Science. The DOR is used to certify completion of degree requirements, and it is retained according to university record retention and archival policies.**

Students can transfer only a limited number of credits from non-degree-granting accredited institutions and correspondence courses. See non-degree-granting accredited institutions' transfer credit limitation (p. 364) in the *Guide* under **Credits**.

Transfer students who have more than 30 degree credits **are ineligible** to earn retroactive credits in a foreign language on the UW–Madison campus. See credit by course examination/retroactive credits (p. 364) in the *Guide* under **Credits**.

Advisors for freshman and sophomore students are in the L&S Academic Advising Services (608-262-5858) in 101 Ingraham Hall and the Cross-College Advising Service (608-265-5460) in 10 Ingraham Hall. Junior and senior transfer students should meet with an advisor in the department in which they intend to major. **All L&S undergraduate students are expected to declare a major by the time they have 86 degree credits.**

Transfer students should note that the L&S degree requirements have changed as of summer 2007. Those students who matriculated before May 21, 2007 are eligible to complete the degree requirements in force at the time they began their college-level studies. (See previous catalogs under Archive (<http://guide.wisc.edu/archive/>) for more information.)

Because some requirements in force before this edition of the *Guide* differ substantially from the requirements articulated here, transfer students are strongly encouraged to refer to the undergraduate catalog or *Guide* in force at the time of their first matriculation to college. (See past catalogs (<http://guide.wisc.edu/archive/>) to review the requirements that apply.) For some students, it may be to their benefit to consider transferring to the new degree requirements; they may consult with their academic advisor if they wish to consider this option.

### ON-CAMPUS TRANSFER

Continuing UW–Madison students must have a minimum 2.000 cumulative grade point average **and** a UW–Madison grade point average of at least 2.000 in their most recent semester of work in order to transfer into the College of Letters & Science. First-semester and new transfer students without a UW–Madison grade point average may transfer into Letters & Science provided they meet university admission requirements (three units of math and two units of a single foreign language). Students admitted to the university with admission deficiencies must remove those deficiencies before they are eligible to transfer into L&S. **For more information about transferring into L&S, call 608-262-5858 or refer to** request to transfer into L&S (<https://advising.ls.wisc.edu/transfer/>).

Students transferring into one of the general courses from a special course (AMEP, Music), or from another college/school of the university to the College of Letters & Science will receive no more than 18 credits per semester toward graduation for work already completed, unless a 3.000 grade point average was earned the previous semester or the semester the overload was carried. Then a maximum of 20 credits from that term may be transferred. These transferring students will receive credit for studies in another college/school, but will be subject to the conditions of the Liberal Arts and Science Credits requirement. (See Liberal Arts and Science Credits (p. 373).)

### UNIVERSITY SPECIAL STUDENTS

If you are not currently enrolled in a UW–Madison degree program but wish to take courses within the College of Letters & Science at UW–Madison for credit as a non degree-seeking candidate or as an auditor, it may be

best to consider becoming a special student (<https://acsss.wisc.edu/special-student-types/>). Information about becoming a non degree-seeking student at UW–Madison can be found at Adult Career and Special Student Services (<https://acsss.wisc.edu/apply/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning –tools, breadth, and depth–work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

## POLICIES AND REGULATIONS

### ACADEMIC STATUS

The primary audience for this page are students in one of the L&S residential undergraduate degrees:

- Bachelor of Arts
- Bachelor of Science
- Journalism Bachelor of Arts
- Journalism Bachelor of Science
- Bachelor of Science, Applied Mathematics, Engineering, And Physics
- Bachelor of Landscape Architecture
- Bachelor of Music: Education
- Bachelor of Music: Performance
- Bachelor of Social Work

The information may not be relevant to students enrolled in the Bachelor of Liberal Studies online degree.

### ACADEMIC STANDING (P. )

#### Good Academic Standing

L&S undergraduate students are in good academic standing if their [cumulative] University and most recent term (Fall, Spring, Summer) GPA are at least a 2.000. Students in good academic standing are not on any form of academic probation and are not at risk of being dropped from the University. Students (e.g., first-term Freshmen) who have not yet established a University GPA are also in Good Academic Standing.

#### Academic Probation and Suspension

Students whose University GPA or most recent term GPA are below a 2.000 will be placed in academic probation or academic suspension, as follows:

- If a student is not on probation and earns a term GPA of 1.000 - 1.999, the student is placed on **probation**.

- If a student is not on probation and earns a term GPA of less than 1.000, the student is placed on **strict probation**.
- If a student is on probation and earns a term GPA of 1.500 - 1.999, the student is placed on **strict probation**.
- If a student is on probation and earns a term GPA of less than 1.500, the student is **dropped (placed on academic suspension) for one (1) year**.
- If a student is on strict probation and earns a term GPA below 2.000, the student is **dropped (placed on academic suspension) for one (1) year**.

#### Readmission

Students who have completed their academic suspension may apply for readmission (<https://deans.ls.wisc.edu/policies-forms/probation/readmission/>).

Some students may wish to appeal their academic suspension through the L&S Undergraduate Academic Dean's office.

### DEAN'S LIST (P. )

The College of Letters & Science Dean's List is established at the end of each fall and spring terms. To be eligible for the Dean's List in a given term, students **must**:

- complete a minimum of 12 graded\* credits in that term with a minimum GPA of 3.600 for students who are classified as freshmen (fewer than 24 credits) and sophomores (24-53 credits), **or**
- complete a minimum of 12 graded\* credits in that term with a minimum GPA of 3.850 for students who are classified as juniors (54-85 credits) and seniors (at least 86 credits)
  - **Note:** *Advanced Placement (AP), College-Level Examination Program (CLEP), International Baccalaureate (IB) credits, credit by department examination, transfer credits, and retroactive credits (retrocredits) will count toward a student's class standing (level).*

\*The grades used to determine the dean's list eligibility are: A, AB, B, BC, C, D, and F. A student must have a minimum of 12 credits from this list of grades in order to qualify for the L&S Dean's List.

An entry, "Dean's List," appears on the student's grade report and on the transcript.

- Students who have P grades for their senior thesis (regardless of whether they have 12 other graded credits), as well as students with unresolved grades of NR, I, and Q **are not** eligible for the Dean's List until they get these outstanding temporary grades resolved.
- Once a student has resolved any outstanding grade issues and believes he/she qualifies to be on the Dean's List, the student should contact L&S Undergraduate Academic Deans' Services (<https://saa.ls.wisc.edu/offices/academic-deans-services/>) for more assistance.
- **Please note that the College of Letters & Science does not "round up" for the purpose**

**of tabulating the GPA for the Dean's List.** For example, an L&S sophomore with a fall or spring term GPA of 3.599 is not eligible for the Dean's List since the minimum GPA for freshmen and sophomores to qualify for the Dean's List is 3.600.

More information can be found at Dean's List (<https://registrar.wisc.edu/deanslist/>) and L&S Dean's List Qualifications (<https://kb.wisc.edu/lis/21121/>). For information about class standing, see L&S Undergraduate Classification and Class Standing (<https://kb.wisc.edu/lis/21122/>).

## TRANSFERRING TO L&S FROM ANOTHER UW-MADISON SCHOOL OR COLLEGE

Students in Good Academic Standing may apply for transfer to the College of Letters & Science (L&S) from within UW-Madison, by completing the Transfer Request Form (<https://saa.lis.wisc.edu/policies-forms/lis-on-campus-transfer-request/transfer-to-lis-request-form/>).

## COURSES AND ENROLLMENT

### CONCURRENT ENROLLMENT (P. )

In some circumstances, it is appropriate for students to enroll for credit at another institution at the same time as being enrolled at UW-Madison. This is called concurrent enrollment (<https://deans.lis.wisc.edu/policies-forms/concurrent-enrollment/>) (or concurrent registration).

Students can request permission to be concurrently enrolled via the concurrent enrollment request form (<https://saa.lis.wisc.edu/policies-forms/concurrent-enrollment/concurrent-enrollment-request-form/>).

### DROPPING A COURSE

Students may drop one or more courses and remain enrolled if they continue in at least one course in that term. See dropping a course at UW-Madison (<https://kb.wisc.edu/lis/page.php?id=21705>) for more information.

### ENROLLMENT/REGISTRATION DEADLINES (P. )

Deadlines for all types of enrollment changes can be found on the Office of the Registrar's Dates & Deadlines (<https://registrar.wisc.edu/dates/>) page.

If a student wishes to drop all of their classes in a term, the student should **withdraw** from the semester. For more information about withdrawing, see withdrawing from UW-Madison (<https://kb.wisc.edu/lis/page.php?id=21703>).

### DIRECTED/INDEPENDENT STUDY (P. )

Directed/Independent Study offers the student an opportunity to work with a faculty member on an individual study program. A student who is stimulated by a particular concept or problem encountered in a course can pursue and develop that interest in depth through a Directed Study project. Such individualized study can make a valuable contribution to a student's educational experience.

Directed Study courses are made available by departments on the basis of a student's preparation and motivation and a

faculty member's willingness to accept the student in such an endeavor. See L&S Undergraduate Directed/Independent Study Course Guidelines (<https://kb.wisc.edu/lis/page.php?id=20133>) for more detailed information.

Directed Study courses with a number ending in 98 (e.g., 198, 698) are carried on a Credit/No Credit (Cr/N) basis.

Prior to registration and before the end of the second week of classes, students are responsible for making all arrangements with the faculty member who agrees to direct their work. The student and faculty member should prepare a study plan, determine the time and place for regular meetings, the number of credits to be earned, and how to enroll in the course.

#### Notes:

- Directed Study courses **do not** carry University General Education, Language, or L&S Breadth attributes
- Directed/Independent Study courses *may not* be taken on a pass/fail or audit basis.
- L&S undergraduates are not permitted to take graduate level directed study (**courses numbered 799, 899, and 999**) under any circumstance.
- Directed Study courses may be repeated for credit if course content is not duplicated.
- Some majors limit the number of Directed Study credits that can be applied to the major.
- Directed Study courses are not intended as placeholder credits for registration purposes, and students with special rules for full-time status should consult the undergraduate deans before enrolling in Directed Study courses after the enrollment period.
- Directed Study courses taken in non-L&S departments are considered equivalent to Liberal Arts and Science courses provided that they are offered at the 300-or-above level.
- Because these experiences are intended to provide intensive, one-on-one experiences with faculty, departments are not allowed to use Directed Study courses to teach group instruction courses.

### DROP NOTATION (P. )

The Drop (DR) notation appears on students' records for any course dropped after the last day to drop courses or withdraw without a DR or W grade notation appearing on students' transcripts. For the specific deadline for dropping classes so a DR will not appear on a student's records, see the Office of the Registrar Dates and Deadlines page (<https://registrar.wisc.edu/dates/>). Please note that L&S **does not** backdate drops to erase them from a student's academic records or extend the drop deadline so that the DR will not appear.

The DR notation only shows that a student has dropped a course(s) before the official drop deadline. A "DR" on a student's academic record does not have any negative implications for students when they are applying to graduate schools or seeking employment. The "DR" was instituted as a means to document when a course was dropped after the first

eight days in the fall and spring semesters (or the appropriate period during the summer session or module courses).

## GRADUATE COURSES (P. )

All courses numbered 700 and above are graduate courses and considered advanced (A). **Enrollment in these courses is strictly limited to only graduate-level students. L&S undergraduates who, on the rare occasion, are permitted to enroll in graduate level courses and receive passing grades in these classes will be awarded undergraduate degree credit. L&S undergraduate students SHOULD NOT enroll (or be permitted to enroll) in graduate courses if they are not making satisfactory progress toward their undergraduate degree or if taking graduate-level courses would delay their time to graduation.**

- L&S students who receive permission to enroll in L&S graduate courses may count those credits toward completion of their Liberal Arts and Sciences credit requirement. These credits may be used to satisfy the requirements related to mastery of intermediate/advanced level work, but since these courses do not carry breadth designations, they **do not** satisfy breadth requirements.
- L&S students who enroll in **non-L&S** graduate courses may count those credits as part of their free electives in the degree. **These credits may not be used to satisfy breadth or level requirements.**
- Grades earned by undergraduates who complete graduate courses will be included in all relevant grade point average calculations (see Quality of Work Requirements (p. ) for the list of areas in which these averages are calculated). Most graduate courses restrict enrollment to students who have graduate standing, or who have received the instructor's consent to enroll.
- Students can count up to seven (7) credits of graduate-level coursework earned as an undergraduate toward future graduate studies.
- **Undergraduate students cannot take or earn degree credit for graduate-level Directed Study, Independent Reading, Independent Study, or Individual Enrollment courses (e.g., 799, 899, 999).**

Provided that an instructor wishes to allow undergraduates to enroll in a graduate course, students who wish to enroll in the courses should meet with the instructor, who can evaluate whether or not the student should be allowed to register. This decision is made at the instructor's discretion, based on such considerations as whether or not the student has met course prerequisites, is prepared to perform graduate-level work in the course, and is likely to successfully complete the course. Instructors are not obligated to accommodate undergraduate student requests to enroll in graduate-level courses. Furthermore, it should be noted that all students in graduate-level courses are expected to be held to a similar performance standard with respect to quality, quantity, and type of work performed.

## ENGLISH AS A SECOND LANGUAGE (P. ) (ESL)

The Madison English as a Second Language Test (MSNESLAT) is taken by all students who are required to submit a Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS) score for admission to UW-Madison. See more information about Language Placement Exams here (p. 11).

All ESL courses completed in residence, and all credit earned in those courses, will appear on students' transcripts. ESL courses numbered below 118 are not considered Liberal Arts and Science courses but may be counted among L&S students' free electives in the degree.

### Degree Requirements for ESL Students

International students must complete the same degree requirements as any other entering student. The College of Letters & Science makes some exceptions to this policy. For example, the College may waive the language requirement for the B.A. and B.S. degrees for students who are native speakers of a language other than English.

A student who graduates from or completes a major portion (the equivalent of at least five semesters) of a secondary school in a non-English-speaking school system may qualify for an exemption from the L&S language requirement. Exemption is not automatic. Students who believe they may qualify for an exemption should contact the Office of Admissions and Recruitment or an L&S academic dean to determine how their language background may be applicable toward the language requirement.

**Students whose native language is not English may not receive degree credit for work in their native language through Credit by Examination except for literature credit.**

I (<https://iss.wisc.edu/>)nternational Student Services (ISS) (<https://iss.wisc.edu/>) offers assistance and advising in non-curricular matters such as visa-related issues.

## LIBERAL ARTS AND SCIENCE (LAS) COURSES (P. )

Courses that have been approved as Liberal Arts and Science (LAS) classes are expected to encourage students in one or more of the three "habits of the mind" of liberal arts education, as specified by the College of Letters & Science. These include:

1. Skilled written and verbal communication, excelling in formulating and expressing a point of view, reflecting and questioning current knowledge through reading, research and consideration of the views of others.
2. The ability to draw flexibly upon and apply the modes of thought of the major areas of knowledge.
3. Knowledge of our basic cultural heritage as a multifaceted and often contested history.

For more detailed information, refer to criteria for Liberal Arts and Science Courses (<https://kb.wisc.edu/lis/page.php?id=43819>).

## PREREQUISITE COURSES (P. )

The College of Letters & Science recognizes that some courses that meet general degree requirements (e.g., language, math, ESL) require prior knowledge in that subject. For purposes of distinguishing between necessary prerequisites and electives, coursework that is regarded as prerequisite to courses meeting general degree requirements is considered "necessary" and not purely elective.

## REGISTRATION (ENROLLMENT) CHANGES (P. )

Students may make changes in their registration (add and/or drop courses, change sections in a course, or change the number of credits in a course) via their Student Center in My UW according to the deadlines (see the Office of the Registrar's Dates and Deadlines Page (<https://registrar.wisc.edu/dates/>)). For more specific information about this process, please refer to Course Change Request (<https://kb.wisc.edu/registrar/7700/#change>). **Students are strongly encouraged to check their current registration and verify they are properly enrolled in the correct courses using My UW** (<http://my.wisc.edu>). For general questions about this process, contact your undergraduate advisor or L&S Undergraduate Academic Deans' Services at 608-262-0617.

Students who enroll for a course must either complete the course or drop it by the deadline for dropping courses.

## RETAKING A NON-REPEATABLE COURSE (TAKING A COURSE ON A "REFRESHER" BASIS) (P. )

A student who passes a non-repeatable course is allowed to repeat that course for no credit. This is called taking the course on a "refresher basis." All instances of a non-repeatable course will calculate in the semester GPA and in the cumulative University GPA. Repeated courses **do not** calculate in L&S requirements for quality of work (Mastery of Intermediate/Advanced work, Major GPA and Upper-Level Major GPA). Credits carried on a refresher basis count toward a student's credit load, each term. **Repeating a course will not remove the prior course or grade(s) earned for that course from the student's record.**

See [retaking a course](#) for more information.

Transfer students must be particularly careful to avoid taking courses on the Madison campus that duplicate courses taken at another institution. Credit will not be given twice for the same courses. Students should carefully check their Transfer Credit Evaluation and consult an advisor when enrolling.

All courses bearing credit – including UW-Madison, Transfer and Test credit (e.g., AP credit) -- cannot be repeated, unless the course is designated as repeatable for credit in the Courses section of Guide.

## WITHDRAWING AND CANCELLING ENROLLMENT (P. )

Withdrawal means dropping all courses in a term. Before the first day of classes in a term, students may cancel their enrollment by dropping all their courses via My UW–Madison. Information about the withdrawal process for L&S undergraduates can be found at withdrawing from semester/term (<http://saa.lis.wisc.edu/policies-withdrawal.htm>).

After the first day of classes and through the withdrawal deadline, L&S undergraduate students may withdraw from the term by going to their Student Center in My UW and accessing the Term Withdrawal tab under Course Enrollment. See Withdraw or Cancel Enrollment for a Term (<https://registrar.wisc.edu/withdraw/>).

Students who withdraw prior to the withdraw deadline do not need special permission to re-enroll in a subsequent term. Letters & Science undergraduate students wishing to withdraw after the deadline must obtain permission from an academic dean through appointment with L&S Undergraduate Academic Deans' Services (608-262-0617). Failure to obtain this permission results in the recording of Failures for all courses.

Students who have neglected their classes, or who have earned unsatisfactory grades, or who have a pattern of withdrawals may need permission of an academic dean to continue or reenter their undergraduate program.

Students are encouraged to confer with a dean regarding the possible effects of withdrawal upon their academic work.

## CREDITS

### CREDIT LOAD (P. )

**Students are Full-time if enrolled for 12–18 credits** in a Fall or Spring term (semester). An enrollment in fewer than 12 credits may be carried without the specific authorization of an academic dean. Students are encouraged to consult their undergraduate advisor or an academic dean regarding their credit load.

There is no equivalent to full-time status for Summer terms.

**The credit load limit** for Fall and Spring terms is 18 credits. The credit load limit for Summer terms is 12 credits.

#### Heavy load

Students who have a cumulative GPA of 3.000 or better at the University of Wisconsin–Madison may enroll for 19 or 20 credits during the fall or spring term, or 13 credits in summer term, with permission from an academic dean in L&S Undergraduate Academic Deans' Services. *Additional fees per credit are assessed for all credits above the limits.* **Under no circumstances may a student carry more than 20 credits in either the fall or spring term or more than 13 in a summer term.**

Some students (e.g., international students and students competing in NCAA athletic events) are usually required to maintain full-time status. Some scholarships and other financial aid packages may require full-time status. Such

students should consult their advisor or the academic deans in L&S before dropping below full-time status.

For more information regarding credit load, see common credit load for L&S undergraduate students (<https://kb.wisc.edu/lis/21871/>).

## CREDIT BY COURSE EXAMINATION/ RETROACTIVE CREDITS (RETROCREDS) (P. )

The College of Letters & Science will award degree credit for language work successfully completed in high school under certain circumstances **and** if an additional language course is taken **at UW–Madison**. In no case can a student earn retroactive credits simply by taking a placement test or other exam. **A student must take the appropriate UW–Madison language class at UW–Madison to earn retroactive credits.**

Students who qualify for retrocredits after completing the appropriate language course on the UW–Madison campus will automatically receive retrocredits approximately two to three months after all grades have been posted for all students. This benefit is available to freshmen (first-year students), and can be exercised when the following conditions are met:

- **The course must be a student's first course at the college level in the language.** This does not include college-level coursework taken prior to graduating from high school but does include courses transferred from another institution where a student was working towards an undergraduate degree or coursework a student completed after graduating from high school.
- **The course must be designated appropriate for earning retroactive credits.** These courses are designated with the Foreign Language Level attribute of 2nd, 3rd, 4th, and 5th semester language course in the **Guide** under *Courses* (see **course designation**). Course designed in the Guide as **Frgn Lang - 1st semester language course** are not eligible for retrocredits.
- **A student must take the course before he/she has earned 30 degree credits.** This **does not** include AP, CLEP, IB, or other college credit earned in high school, nor does it include retroactive credits earned in another language. It **does** include courses transferred from another institution where you were working toward a degree.
- **A student must earn a B or better in the class.**
- **The student is not a native speaker of the language of the course**

If a student meets all the conditions listed above, retroactive credits should appear automatically on a student's transcript by the beginning of the following semester (e.g., if the language was completed in the fall term, the retroactive credits should appear on a student's record by the beginning of the spring term). If retroactive credits do not appear on a qualified student's records by the end of the **fourth** week of the following term, the student should fill out a Retroactive Language Request

Form (<https://kb.wisc.edu/images/group86/23736/RETROACTIVELANGUAGECREDITREQUESTFORM-1.pdf>) and submit that form to the office of the academic dean at the student's particular school or college. For students earning an undergraduate degree in the College of Letters & Science, the form should be sent to L&S Undergraduate Academic Deans' Services (<http://saa.ls.wisc.edu/deans-services.htm>). Non-L&S degree-seeking candidates should speak with the undergraduate academic service unit in the school or college for more guidance.

- Retroactive credits (retrocredits) **will not** automatically be posted for students who have already earned retrocredits. If a student is still eligible to earn retrocredits and wishes to receive retrocredits for another language(s), the student will need to fill out the Retroactive Language Request Form (<https://kb.wisc.edu/images/group86/23736/RETROACTIVELANGUAGECREDITREQUESTFORM-1.pdf>) and deliver it to the L&S Academic Deans' Services Office in 110 Ingraham Hall if the student is an L&S undergraduate. For further information, contact L&S Academic Deans' Services at 608-262-0617.

### Please note:

- Students can earn retrocredits in more than one language as long as they are within the 29-credit limit and meet the other requirements listed above to earn retrocredits.
  - Retroactive credits (retrocredits) will not be posted automatically for students who have already earned retrocredits. If students are still eligible to earn retrocredits and wishes to receive retrocredits for another language(s), they will need to fill out the Retroactive Language Request Form (<https://kb.wisc.edu/images/group86/23736/RETROACTIVELANGUAGECREDITREQUESTFORM-1.pdf>) and deliver it to L&S Undergraduate Academic Deans' Services in 110 Ingraham Hall to be reviewed if they are an L&S undergraduate student.
- Retrocredits can only be earned for the first four semesters/levels of a language sequence. For example, a student who tests into SPANISH 311 can earn a maximum of sixteen retrocredits (SPANISH 101, SPANISH 102, SPANISH 203, and SPANISH 204). The maximum number of credits earned will be impacted if the student already has AP credits for a particular course.
- **The maximum number of retrocredits a student can earn in the Chinese/Japanese language sequence is sixteen (16) credits.** For example, a student who tests into ASIALANG 301 **and** successfully completes this course with a grade of B or better can earn a maximum of sixteen (16) retrocredits (ASIALANG 101, ASIALANG 102, ASIALANG 201, and ASIALANG 202).
- UW–Madison will honor retroactive credits earned at another UW System institution provided that these credits were earned according to UW–



Madison policy. Students will need to work with the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/apply/freshman/apib.php>) at UW–Madison to make sure the retrocredits from the other institution get posted to their official UW–Madison records.

For more information about retroactive credits, refer to L&S retrocredit requirements and information (<https://kb.wisc.edu/lis/page.php?id=23736>).

## CREDIT BY DEPARTMENTAL EXAMINATION (P. )

The College of Letters & Science allows degree credit, as well as placement credit, for the mastery of some L&S coursework as demonstrated by appropriate achievement tests. The intent of these examinations is to increase opportunities for obtaining degree credit for college-level work done in high school or elsewhere.

Credit may be earned based on an examination given by a department when a student has demonstrated possession of knowledge equivalent to what would be learned in a specific course taught in that department. The credit given is for knowledge possessed by the student regardless of where they have gained that knowledge. For more detailed information, please see the placement and credit by exam tab (p. 11) in the Guide.

## TRANSFER CREDITS (P. )

Transfer credit can be awarded to any admitted UW–Madison student who has completed coursework at institutions accredited by a regional or national accrediting organization recognized by the Council for Higher Education Accreditation (CHEA). For more details about receiving credit for transfer work at UW–Madison, see transfer your credit to UW–Madison (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>). Credit Evaluation Services has additional information regarding transfer credit at credit resources for current UW–Madison students (<https://registrar.wisc.edu/credit-resources-for-current-uw-madison-students/>). Students who have general questions about transfer credits should refer to Credit Evaluation Services (<https://apps.admissions.wisc.edu/ces/>) on the Office of the Registrar's website (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>) or contact them via email at [crediteval@registrar.wisc.edu](mailto:crediteval@registrar.wisc.edu).

## LIMITS ON THE NUMBER OF TRANSFER CREDITS FROM NON-BACCALAUREATE INSTITUTIONS

Of the credits required for graduation, the maximum number of transferable semester credits from a two-year college (non-degree-granting accredited institution) is 72. There is no credit limit on transferable credits from a four-year university. However, of the last 60 credits earned before graduation, not more than 12 may be carried at these non-degree-granting accredited institutions. See transfer your credit to UW–Madison (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>) for more information about UW–Madison's transfer credit policy.

# DEGREES

## ASSOCIATE'S DEGREE POLICY (P. )

All new transfer students with an associate's degree from any UW System institution or an approved liberal arts associate's degree from a Wisconsin Technical College System (WTCS) schools (Madison College, MATC–Milwaukee, Nicolet, Chippewa Valley, Western) will have their University General Education (UGER) (p. 32) breadth requirements satisfied at UW–Madison. Students pursuing their undergraduate degrees in the College of Letters & Science may need to take additional coursework to fulfill the L&S breadth requirements (p. 373). Students should consult with their undergraduate advisor(s) if they have additional questions.

WTCS transfer students should be aware that only liberal arts associate's degrees that are approved by **both** WTCS and UW System Administration are eligible for this provision. Students with associate degrees in technical, vocational, or other fields will not have their UGER breadth requirements satisfied.

## DEGREES AND DIPLOMAS INFORMATION (P. )

**A UW–Madison undergraduate diploma lists only the degree (e.g., Bachelor of Arts) and does not list major(s) or certificate(s).** Major and certificate information will be recorded on a student's official UW–Madison transcript.

**All L&S undergraduate students are expected to graduate as soon as they have completed all of their degree and major requirements.** Students should declare their intent to graduate via their Student Center. L&S reserves the right to graduate an undergraduate student if the College discovers that a student has completed all their major and degree requirements but has not declared intent to graduate.

Graduation is based on the last term a student was enrolled in courses that completed all of their requirements. For additional information about degree conferment, see conferral of degrees under graduating (<https://guide.wisc.edu/undergraduate/#requirementsforundergraduatetext>).

## SECOND UNDERGRADUATE DEGREE (P. )

Students are not permitted to earn two undergraduate liberal arts degrees within the College of Letters & Science at UW–Madison.

Students who already have a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) degree from another institution may not enroll for a second B.A. or B.S. degree in L&S, even if their major is substantially different than what they intend to declare at UW–Madison.

To be permitted admission for a second undergraduate degree in L&S, the student's first undergraduate baccalaureate degree must be in field substantially different than our liberal arts education. Eligibility is determined as part of the admissions process. Before embarking on a second undergraduate degree, students should clearly identify their goal(s), research options carefully, and be sure that you need a second undergraduate degree to reach your objectives.

For more detailed information about applying for a second undergraduate degree, please see L&S Second Undergraduate Degree (<https://kb.wisc.edu/lis/internal/109226/>). Second undergraduate degree students are admitted to a specific major. To make changes to their major, second-degree students must first secure permission from L&S Undergraduate Academic Deans' Services (<https://saa.lis.wisc.edu/offices/academic-deans-services-2/>). Students who are found to have declared another major without first getting permission will be removed from that major. Students admitted as candidates for a second undergraduate degree are subject to the L&S Academic Probation and Drop system.

Students interested in applying as candidate for a second undergraduate degree in the College of Letters & Science apply as a second degree student (<https://admissions.wisc.edu/apply-as-a-second-degree-student/>) with the UW-Madison Office of Admissions and Recruitment.

Students who started an additional major but did not declare it prior to graduating are not eligible to return as a second-degree student to finish up coursework for the second or additional major.

## EXAMS

### FINAL EXAMINATIONS (P. ) (ACADEMIC SUMMARY PERIOD)

Following the regularly scheduled instructional period each semester is an eight-day summary period. Typically the first day of the summary period is for individual study and review, and no classes or exams are to be scheduled during this designated period. The last seven days are prescheduled to include one two-hour summary block for each course of two or more credits. This two-hour block shall be used for an examination or for other instructional activities as deemed appropriate by the instructional unit offering the course. **During the two weeks preceding the summary period, examinations covering the content of the entire course cannot be given.** Take-home examinations are due at the scheduled two-hour block.

Faculty policy prohibits giving or taking final examinations earlier than the time assigned in the Course Guide. Students may arrange a make-up examination only if the professor is willing and if there is a valid reason for missing a final examination. (See the Guide entry "incompletes (p. )" below.)

Students are required to attend all their final exams. Leaving prior to the final examination period and not taking finals will have a negative impact on a student's final grade in a course or courses. See class attendance policy (<https://kb.wisc.edu/lis/page.php?id=24628>) for more information.

### MIDTERM EXAM POLICY (P. )

Information about midterm exam policy along with fall, spring, and summer term final exam policy can be found at midterm and final exam policy information (<https://registrar.wisc.edu/exam-grading/>) on the Registrar's website. Additional information can also be located at midterm grades ([\[registrar.wisc.edu/mid\\\_term\\\_grades.htm\]\(https://registrar.wisc.edu/mid\_term\_grades.htm\)\) and upcoming final exam periods \(<https://registrar.wisc.edu/exam-grading/>\).](https://</a></p>
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- It is implicitly understood that no exams, papers, or assignments will be required during any break period (e.g., spring break) or major holiday.

## GRADES

Official information about grades, GPA calculations, and grading processes and deadlines can be found here: Student Grading and GPA (<https://registrar.wisc.edu/student-grades/>).

### AUDIT (P. )

A student may enroll in a course on an audit (AU) basis with prior consent of the instructor of the course. As an auditor, the student is considered a passive learner and may not recite in class or take examinations. **Courses with laboratory or performance skills may not be audited.** (L&S undergraduate students are not allowed to audit classes required for their major or degree with the purpose of getting some background prior to formally enrolling in the courses). Regular class attendance is expected. Courses audited carry no degree credit and are not graded. The credit value of courses carried on an audit basis is included in the semester/term program load for purposes of determining fees and maximum credits carried.

Courses carried on an audit basis may have an impact on students applying for scholarships or other forms of financial assistance. Students should contact the unit/agency administering the scholarship or Student Financial Services for more guidance. **Students should also contact their insurance company to determine whether auditing a course (or courses) will have an impact on their coverage.** See information on auditing courses for L&S undergraduate students (<https://kb.wisc.edu/lis/page.php?id=26734>) for more details.

L&S undergraduate students who wish to change their registration in a course from a credit basis to an audit basis must do so within the first four weeks of the semester by submitting a Course Change Form to 101 Ingraham Hall, 1155 Observatory Drive. **(Course Change Requests can be accessed through an individual's Student Center in My UW (<https://my.wisc.edu>) under: Course Enrollment/Term Information/Course Change Request.)** Students **will not** be able to submit or cancel a request to audit a course after the fourth week of the fall or spring term.

- Audited courses, noted as such by "AU" in place of a number of credits, are graded either "S" (Satisfactory) or "NR" (No Report) or "NW" (No Work). **AU is not a grade.**
- For modular and summer session courses, audit requests must be submitted by the Friday of the week in which the session is one-fourth completed.
- Audits may affect a student's eligibility for financial aid (including Social Security and Veterans' benefits). Students should consult an advisor in the Office of Student Financial Aid (<http://www.finaid.wisc.edu>) for more detailed information.

- Students with questions about their Veteran benefits and taking courses on an audit basis should contact the University Veteran Services (<https://veterans.wisc.edu/>).

## CREDIT/NO-CREDIT (P. )

A limited number of courses on campus are offered on a Credit/No Credit basis. Credit/No Credit is not the same as Pass/Fail. At the completion of the course the student is given a grade of CR or N. A grade of CR will give a student degree credit; a grade of N will award no degree credit. Neither grade has any GPA impact.

## FAILURES (P. )

Students who have earned a grade of F may repeat the failed course in residence. **The original grade of F remains permanently on a student's record and is averaged into the semester and overall grade point average (GPA).** The failure will be counted as zero grade points per credit in computing the GPA. If a student repeats the failed course, the course will appear on the student's transcript twice with the original grade of F recorded and the new grade also recorded. Both grades will be counted in determining all applicable quality of work requirements. **Multiple failures in the same course all count in the GPA and will appear on a student's permanent records.** See retaking a course at UW-Madison (<https://kb.wisc.edu/lis/21853/>) for more details.

A course failed in residence at UW-Madison may be repeated for credit at any other educational institution. However, the new grade earned out of residence will not have an impact on the student's UW-Madison GPA.

## GRADE CHANGES (P. )

A change of grade is allowed only if there has been a clerical error. If an L&S undergraduate student believes a clerical error has been made in the awarding of the final grade for a course, the student should first meet with the instructor of the course to determine whether such an error has occurred.

## GRADE APPEALS

L&S departments are required to have a written policy and process regarding grade appeals. Students who believe they have been unfairly graded in a course and wish to appeal should follow the appeal procedure established by the department in which the course grade was given. See process for appealing a grade in an L&S course (<https://kb.wisc.edu/lis/page.php?id=28334>) for more information.

## INCOMPLETES (P. )

A grade of incomplete (I) may be reported for a student who has been enrolled in a course with a passing grade until near the end of the semester/term and then, due to illness or some other unusual and substantiated cause beyond the student's control, has been unable to take or complete the final examination (or to complete some limited amount of term work). An Incomplete is not given to a student who stays away from a final examination unless the student proves to the instructor that he or she was prevented from attending as indicated above. In the absence of such proof the grade reported will be an F. Even when a student can provide verifiable documentation, a student may still earn a grade of F

if the quality of the student's work convinces the instructor that the student cannot successfully pass the course.

Any subject taken by an L&S undergraduate student marked Incomplete must be completed by the end of the fourth week of classes of the student's next semester/term in residence at the University (exclusive of summer sessions) or it will lapse into a Failure. If an instructor grants an extended incomplete (EI), a grade change will need to be filed by the instructor, approved by the chairperson of the department, and forwarded to L&S Undergraduate Academic Deans' Services in 110 Ingraham Hall. In such cases the grade of I is replaced with the grade of extended incomplete (EI).

**NOTE: Extended Incompletes (EI) must be removed and replaced with the final grade by the last day of classes prior to the start of final exams or they will lapse into Failures.** The last day of classes is defined as the last day of instruction for a given term prior to the start of study day and final exams.

Incompletes incurred in the last semester in residence at UW-Madison may not be removed after five years of absence from the University without special advance permission from L&S Undergraduate Academic Deans' Services. Such Incompletes must remain on the record with grades of permanent incomplete (PI) and do not lapse into failures.

If a student enrolls with an Incomplete grade from a previous semester and is dropped later in the term because the Incomplete has lapsed to an F or has been changed to a low grade, the student will be withdrawn with an effective date within the refund period closest to the time of the student's actual withdrawal if the student has not been granted permission to continue by an L&S academic dean.

For further information, see UW-Madison incomplete (I) grade information (<https://kb.wisc.edu/lis/page.php?id=21330>) on the L&S website and incompletes (<https://registrar.wisc.edu/incompletes/>) on the registrar's website.

## NO WORK (NW) (P. )

Students will receive a grade of No Work (NW) on their official records if they enrolled in a course and then never attended. Instructors may award this grade only when the instructor has no evidence that the student ever attended or submitted any work. Any student who does attend for part of the semester/term and then stops participating is not eligible to receive a grade of NW. The No Work notation does not have an impact on a student's semester/term or cumulative GPA.

A course failed in residence at UW-Madison may be repeated for credit at any other educational institution; however the new grade earned out of residence will not have an impact on the student's UW-Madison grade point average (GPA).

## PASS/FAIL (S/U) (P. )

Any L&S undergraduate student in good academic standing is eligible to take **one (1)** course per term/semester on a pass/fail (S/U) basis and a maximum of sixteen (16) credits during their entire undergraduate career.

Any student who takes a pass/fail course must earn at least a C to receive credit for the course. Final grades for these courses will be indicated as satisfactory (S) or unsatisfactory (U) without any computation of grade points for those courses into the semester or cumulative grade point average. The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U will be recorded by the Registrar's Office in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade point average. The pass/fail option is the student's choice and the instructor reports the grade without knowing whether or not the student is taking the course on a pass/fail basis.

For more information, see taking a UW-Madison course pass/fail (<https://kb.wisc.edu/lis/page.php?id=21102>).

#### Notes:

- First-semester freshmen and transfer students without an established UW-Madison GPA are eligible to take **one (1)** course for pass/fail in their first term at UW-Madison. Summer sessions collectively count as a single term. Thus, a student can only take **one (1)** course on a pass/fail basis during the summer.
- Students must submit (or cancel) pass/fail requests via their Student Center link (<https://my.wisc.edu/>) by the end of the fourth (4th) week of fall and spring terms. (For modular and summer session courses, pass/fail requests must be submitted by the Friday of the week in which the session is one-fourth completed).
- Students **may not** cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms.
- All requests to add or cancel pass/fail must be submitted via the Course Change request in the Student Center by the appropriate deadline.
- **Students cannot cancel a Pass/Fail request after the deadline if they need the course(s) to fulfill a major or degree requirement at a later date. It is the student's responsibility to determine whether or not they can take a course on a pass/fail basis.**
- Pass/Fail and Course Change Requests can be accessed through a student's Student Center in My UW-Madison (<http://my.wisc.edu/>) by clicking Course Change Request via Course Enrollment, Term Information. For more information about requesting the pass/fail option, refer to pass/fail option (<https://registrar.wisc.edu/pass-fail-option/>) on the Registrar's Office website.
- **Only elective work may be carried on a pass/fail basis.** Thus, pass/fail **cannot** be declared or used to fulfill the following requirements:
  - Breadth (humanities, literature, social science, natural science)
  - Foreign language (prior to fulfilling the B.A. or B.S. foreign language requirement)
  - Math
  - Ethnic Studies

- General Education Requirements (Comm A, Comm B, QR A, QR B)
- Major requirements
- Senior Thesis coursework (i.e., 681, 682, 691, 692)

- L&S undergraduates may take courses in their major or major department for pass/fail. **However, any coursework taken for pass/fail in the major or major department will not count toward fulfilling any requirements.** Students are strongly encouraged not to take coursework in their major program without first consulting with their undergraduate advisor.

For further information, see <https://deans.ls.wisc.edu/policies-forms/pass-fail/>.

## QUESTION (Q) (P. )

A "Q" grade is assigned by an instructor when there is a discrepancy between the work completed by a student and the student's official registration. The Office of the Registrar (<https://registrar.wisc.edu/>) will post the temporary Q grade/mark to a student's record until the discrepancy is resolved. A student will receive a Q in one of three situations:

- a student registers for a variable-credit course and completes the work that is appropriate for a different number of credits;
- a student registers for Honors credit and does not complete the Honors portion of the work; and
- a student does not register for Honors but completes the Honors work appropriate for an Honors designation.

In each of the three cases listed above, students will need to work with the instructor to correct the situation before a grade can be reported. The correct grade will need to be forwarded by the instructor to L&S Undergraduate Academic Deans' Services (<https://saa.ls.wisc.edu/offices/academic-deans-services/>). For more information, see valid instructor assigned grades (<https://registrar.wisc.edu/valid-grades/>).

## MAJORS

### DECLARING A MAJOR (P. )

A department, program may specify prerequisites for acceptance into a major, such as a minimum grade point average or completion of specific courses with a minimum grade. Students are responsible for reviewing the quality requirements for a particular major or school, as outlined on the program pages listed in the degrees/majors/certificates (p. 361) section of this Guide. Students not accepted in a major or special degree program must select a different major.

### MANDATORY MAJOR DECLARATION POLICY

Students must declare a major through the department or unit administering that program. (Please note that all L&S undergraduate students are required to declare at least one L&S major by the time they have 86 degree credits.) Students should speak with the advisor for the major/certificate/l

degree program to determine their eligibility to declare and the process for declaring the major. If a student does not plan on completing the requirements for a declared major, the student must cancel the major. There is no limit to the number of majors an L&S undergraduate students can declare. Additional information can be found at how to declare a major in L&S (<https://deans.ls.wisc.edu/declaring-a-major-for-students-in-the-college-of-letters-science-ls/>).

## COMPLETING AN L&S MAJOR WITH A NON-L&S DEGREE (ADDITIONAL MAJOR/ AMAJ) (P. 32)

Non-L&S undergraduate students in other schools/colleges on at UW–Madison (e.g., Business, CALS, Education, Engineering, etc.) are eligible to complete a major in L&S without having to complete L&S degree requirements if they receive permission from their home school/college. The process for obtaining special permission to pursue an L&S major varies based on the student's home school/college. Non-L&S undergraduate students must contact the appropriate L&S major department/unit about the steps they will need to take in order to declare an additional major and fulfill all of the major requirements within the College of Letters & Science.

## COMPLETING A NON-L&S MAJOR WITH AN L&S DEGREE (P. 32)

L&S undergraduate students must complete at least one (1) L&S major to earn their L&S degree. Students may also declare up to one (1) of approved additional major from another UW–Madison school/college. These majors are currently approved for L&S students, with permission from the L&S Academic Deans Services office:

- Education Studies (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/education-studies-bs/>) (Education)
- Global Health (<https://guide.wisc.edu/undergraduate/agricultural-life-sciences/entomology/global-health-bs/>) (CALS)
- Health Promotion and Health Equity (<https://guide.wisc.edu/undergraduate/education/kinesiology/health-promo-health-equity-bs/>) (Education)
- Theatre and Drama (<https://guide.wisc.edu/undergraduate/education/theatre-drama/theatre-drama-bs/>) (Education)

The following policies apply to L&S students with an additional non-L&S major.

- **L&S undergraduate student must first declare a major in L&S before being eligible to declare one of the approved non-L&S majors.**
- L&S undergraduate students may complete these additional majors unless their degree or major explicitly states that their students cannot pursue an additional major or program.
- Students pursuing the Bachelors in Landscape Architecture special degree are not permitted to pursue an additional major.

- A student earning an L&S undergraduate degree cannot graduate within L&S with only an approved non-L&S major.
- L&S will not delay graduating students who have not completed the requirements for majors outside of L&S. Thus, students with these additional majors outside L&S will be graduated at the end of the semester/term in which they complete their L&S requirements, even if the CALS or School of Education major requirements have not been completed.
- Any courses required for the non-L&S major that **are not** designated as Liberal Arts and Science (LAS) courses **will not** count toward satisfying the requirement that students complete 108 credits in Liberal Arts and Science.

## CANCELING A MAJOR (P. 32)

Students may cancel a major by contacting the department of that major. A Senior with only one major who cancels that major is still subject to the Mandatory Major Declaration policy above, and should seek permission to cancel their major with Academic Deans Services.

## REQUIREMENTS

Students pursuing an undergraduate degree in Letters & Science must complete the University General Education Requirements (GER) (p. 32) and the following L&S requirements:

## L&S DEGREE REQUIREMENTS

**This page lists the general degree requirements for the Bachelor of Arts (B.A.), Bachelor of Science (B.S.) degrees, Journalism Bachelor of Arts (JBA), and Journalism Bachelor of Science (JBS).**

Students must complete at least one L&S major to earn one of these degrees; please consult the Guide pages for the respective L&S majors for information about specific major requirements.

Some L&S degrees have different degree requirements that share some aspects of the requirements described below. Please consult the Guide pages for specific requirements for admission and completion for the Bachelor of Science, Applied Mathematics, Engineering, and Physics, Bachelor of Liberal Studies (online only), Bachelor of Landscape Architecture, Bachelor of Music (in Education and in Performance), and the Bachelor of Social Work.

In L&S programs, courses may apply to more than one requirement category, unless specifically noted otherwise.

## FOUNDATIONS: TOOLS FOR LEARNING

For all UW–Madison undergraduates, these learning experiences begin with students satisfying the university's General Education Requirements – usually by taking courses taught within the College of Letters & Science. These common foundations cover key topics which are necessary for any undergraduate major and any prospective career: oral and written communication; mathematical and logical reasoning; and the diversity of cultures within global society.

For more on the General Education Requirements, see Requirements for Undergraduate Study (p. 32).

## Language

The study of a language other than English contributes in an important way to a broad education for today's students, who live in a world where the overwhelming majority of people do not speak or read English and where much of the knowledge that is disseminated may never appear in English. Knowledge of a language other than English is important for an appreciation of the culture of the people using that language, and it also helps students to understand the structure and complexities of their own language. Students with sufficient preparation may be able to use the language for study in their chosen discipline.

To be admitted to the University of Wisconsin–Madison, students must have completed the second-year level of a single language other than English (or American Sign Language) in high school. On rare occasions, students may be admitted with a language deficiency, but they will be required to make up that deficiency by the time they earn their 60th degree credit, or they will not be allowed to continue.

### Language Requirement:

All students working for a B.A. or B.S. degree in the College of Letters & Science must fulfill the language requirement (previously known as the "Foreign Language Requirement").

#### B.A. Degree

For the **B.A. degree**, the foreign language requirement may be met in one of two ways: (1) completion of the fourth unit (level) in one language, or (2) completion of the third unit (level) in one language **and** completion of the second unit (level) in another language.

#### B.S. Degree

For the **B.S. degree**, the foreign language requirement may be met by completion of the third level (unit) of a foreign language in high school, or the equivalent third-semester-level college work.

### Language Substitution:

The Foreign Language Substitution Package is for degree-seeking candidates in the College of Letters & Science (L&S) only who are seeking to fulfill the L&S foreign language requirements and also have a documented disability in secondary or additional language acquisition in foreign language acquisition. Specifically, the Foreign Language Substitution Package, like the foreign language requirement, provides students with information about language in general as well as the literature and culture of the people using a particular language. Courses used to meet the substitution must be approved by the designated academic dean in L&S Undergraduate Academic Deans' Services (101 Ingraham Hall (<https://saa.ls.wisc.edu/offices/academic-deans-services/>)). Classes used for the substitution package **cannot** be used to fulfill any of the following requirements:

- University General Education Requirements
- L&S Breadth
- Major Requirements

For more detailed information about applying for the substitution package, please see L&S language substitution (<https://kb.wisc.edu/lis/84515/>).

## Mathematics

Mathematics is a principal tool of knowledge. Algebra and geometry provide the minimum of mathematics skills that an educated person needs in today's world, and competence in these areas is required for admission to the university. Since mathematics underlies quantitative work in all sciences, and the level of mathematical background required has been steadily increasing in most areas of science, the L&S math requirements

should be viewed as minimums. Students whose placement scores place them in MATH 96 must complete it before enrolling in any Quantitative Reasoning A course.

### B.A. Degree

The B.A. requires completion of the University General Education Requirements for Quantitative Reasoning A and Quantitative Reasoning B.

### B.S. Degree

The B.S. degree requires two courses of at least three credits (each) at the Intermediate or Advanced level in MATH (<http://guide.wisc.edu/courses/math/>), COMP SCI ([http://guide.wisc.edu/courses/comp\\_sci/](http://guide.wisc.edu/courses/comp_sci/)), or STAT (<http://guide.wisc.edu/courses/stat/>). Of the two courses, only one (1) course in COMP SCI and only one (1) course in STAT may count toward the B.S. mathematics requirement.

## BREADTH: EXPLORATION IN THE LIBERAL ARTS AND SCIENCES

### Ways of Knowing

At the heart of any degree in the liberal arts and sciences is an active understanding of the variety and breadth of the many scholarly approaches to knowing the world. Every student in the College of Letters & Science experiences significant exposure to three principal fields of knowledge: the arts and humanities, the social sciences, and the natural sciences. These broad fields of knowledge are not the same as the areas of depth that we call "majors." In fact, any particular major—or even a particular course within a major—might well involve more than one of these fields of knowledge. (For example, imagine a seminar on "people and the environment" that combines historical background, research on social patterns of energy use, and scientific understanding of climate.) Working together, each of these three fields of knowledge represents a particular "way of knowing" about the world around us.

### Arts and Humanities

Courses in the arts and humanities involve knowing the world through the production and analysis of artistic, literary, and scholarly work. Some courses examine the fine and performing arts, or literature, presenting students with opportunities to interpret and think critically about these creative expressions of the human condition. Other courses help students to understand and compare religious and philosophical conceptions of humankind. Still other courses take on historical subjects, focusing on moments of change and periods of continuity for the peoples and regions of the world. These courses all encourage students to analyze the range of creative and cultural artifacts, expressions, and ideas of human existence—history, literature, art, culture, folklore—and to use that information to better understand humanity and to cultivate civic and social responsibility.

### Social Sciences

Courses in the social sciences involve knowing the world through the systematic study of human society, interactions, and institutions. The social sciences explore these issues from a wide range of perspectives and research techniques, both quantitative and qualitative. Through these courses students learn how to formulate research questions and determine what techniques are best used to answer those questions—for example, exploring ideas and developing theories, conducting surveys and building models, or observing and participating in social life itself. Developing such analytical skills assists students as they approach complex problems and seek to solve them in both the workplace and the community.

## Natural Sciences

Courses in the natural sciences involve knowing the world through scientific inquiry—assembling objective information that can be used to explain observed natural phenomena in a way that is thorough and verifiable. The natural sciences are often divided into the physical sciences (dealing with matter and energy, or the study of the earth, atmosphere, and oceans) and the biological sciences (dealing with life and living systems, like plants, animals, and environments). These courses often contain laboratory components that allow students to gain firsthand experience in scientific research methods. By completing this requirement, science and non-science majors alike will gain an appreciation for science as a way of systematically looking at the natural world, understanding how this process can be used to inform decision-making in a wide range of political, economic, and social contexts.

Together, these broad "ways of knowing" give students a complementary set of tools for seeing, imagining, and asking questions about the world—tools that enhance creative problem solving no matter what the field. And, because twenty-first-century knowledge is not neatly compartmentalized, it is worth noting that these areas of study intersect and overlap; courses in some areas draw upon strategies used in the others. Experiences in "breadth" courses can be life-changing: we frequently hear that a course taken to fulfill a breadth requirement introduced someone to a subject that became a new major, a new way of looking at a current major, or a lifelong interest. For more information, visit the KnowledgeBase help document (<https://kb.wisc.edu/lis/page.php?id=27031>).

A liberal education involves not only the nature and kinds of knowledge but also the purpose for which knowledge should be used. These considerations are embodied in the breadth or distribution requirement and call for knowledge in several fields of learning. The purpose of this breadth requirement is to ensure that a degree candidate will obtain an understanding of approaches in the humanities, social sciences, biological sciences, and physical sciences adequate for use both as a citizen and as a specialist.

## Breadth Requirements

The L&S breadth requirement is met with 36 credits in the three broad areas of knowledge described above: humanities, social sciences, and natural sciences. Look in the courses section (<http://guide.wisc.edu/courses/>) of the Guide under Course Designation to see what breadth designation courses have.

### B.A. Degree

Humanities: Students are required to complete 12 credits in the humanities, 6 of which must be in literature.

Social Sciences: Students are required to complete 12 credits in social sciences.

Natural Sciences: Students are required to complete 12 credits in natural sciences. Students must take at least one 3+ credit course in biological science AND one 3+ credit course in physical science.

The remaining six (6) credits can be any combination of natural, biological, or physical science credits.

### B.S. Degree

Humanities: Students are required to complete 12 credits in the humanities, 6 of which must be in literature.

Social Sciences: Students are required to complete 12 credits in social sciences.

Natural Sciences: Students are required to complete 12 credits in natural sciences. Students must complete 6 credits in biological science AND 6 credits in physical science.

## DEPTH

### Mastery of Intermediate/Advanced Work

Students must complete a minimum of 60 credits in courses with the Intermediate or Advanced level designation. The purpose of this requirement is to encourage students to undertake advanced work to the greatest possible extent and to ensure that they achieve greater sophistication and a deeper mastery of subject matter as they advance through the baccalaureate curriculum.

### Understanding a Field of Study (Major)

The process of declaring and completing a major provides students with an opportunity to concentrate on an in-depth investigation of at least one subject or issue, putting their tools for learning and ways of knowing to focused use. This intensive understanding of one topic helps students to appreciate the potential depth of the others. A student's work in the major reflects a continuing progression of skills, knowledge, and values, where advanced learning opportunities in upper-level coursework grow from and expand upon earlier experiences, helping students build additional depth in writing, speaking, information literacy, and critical thinking skills from the perspective of a particular discipline. In senior capstone or independent research projects, students are frequently asked to synthesize what they have learned and apply it in a variety of new situations. By the conclusion of their studies, students in the major are better able to understand themselves and their society, to develop their intellectual powers outside of a university setting, and to make productive contributions to the world around them. (See list of L&S majors. (p. 361))

Every candidate for an L&S baccalaureate degree must complete a specified and approved L&S major field of study. Students may elect a department major, a major in a recognized interdisciplinary program, or may develop an individual major if approved by a faculty review committee.

### Declaring a Major or Degree

A department, program, or school may specify prerequisites for declaration into a major, such as a minimum grade point average or completion of specific courses with a minimum grade. Students should review the requirements for a particular major or degree program as outlined under the L&S majors (p. 361) section of the Guide and consult the major advisor for information. Only the department or school can make an exception to declaration requirements. Students not accepted in a major or school must select a different major.

### Requirements that Apply to All Majors

#### Mastery of Upper-Level Work in the Major

All students must complete in residence a minimum of 15 credits of major course work defined as "upper-level" by the major department or program. (Please see the section on Residence Requirements below for additional information about credits taken "in residence.")

#### Residence Requirement in the Major

All students must complete at least 15 credits in the major, at any level, on campus (not through a UW-Madison study abroad program). This includes courses offered by a UW-Madison instructor in hybrid and online modes of instruction.

## TOTAL CREDITS

A minimum of 120 degree credits is required for all baccalaureate degrees granted by the College of Letters & Science. The total credits for the degree encompass the requirements detailed above, but also include elective credits not associated with any specific requirement, that allow students to explore other areas of academic interest.. Refer to the

information in the Majors and Certificates section of the L&S Guide for information about the minimum degree credits required.

### Liberal Arts and Science Credits: 108

Of the minimum 120 credits required for graduation for a B.A. or B.S. degree at least 108 credits must be in courses designated as Liberal Arts and Science (LAS) courses. These courses appear in the Guide as L&S credit and can be identified by looking at the course designation section for a course in the Guide.

Courses that have been approved as Liberal Arts and Science (LAS) classes are expected to encourage students in one or more of the three "habits of the mind" of liberal arts education, as specified by the College of Letters & Science. These include:

- skilled written and verbal communication, excelling in formulating and expressing a point of view; reflecting and questioning current knowledge through reading; research and consideration of the views of others.
- the ability to draw flexibly upon and apply the modes of thought of the major areas of knowledge.
- knowledge of our basic cultural heritage as a multifaceted and often contested history.

For more information, refer to criteria for Liberal Arts and Science Courses (<https://kb.wisc.edu/lis/page.php?id=43819>).

## RESIDENCE

### Residence Requirement in the Degree

All L&S students must earn a minimum of 30 degree credits in residence at the University of Wisconsin-Madison. A course is considered in residence if the student enrolls for credit through UW-Madison. This would include any course that is completed:

- at UW-Madison, in any instructional mode (in-person, online, or hybrid)
- through a UW-Madison administered program, either domestically or internationally (i.e., Study Abroad through International Academic Programs)

A course is not in residence when credit is earned through:

- another accredited institution of higher learning
- study abroad credit, if administered by an institution other than UW-Madison
- examination, such as Advanced Placement (AP), International Baccalaureate (IB), or other approved exams
- retroactive language credit.

UW-Extension and other campuses in the University of Wisconsin System are different institutions and credit earned at any of these campuses is considered transfer credit and not in residence.

### Senior Residence Rule

The 30 minimum credits a student must earn in residence should be completed in the senior year (after a student has completed 86 degree credits). This requirement intends to ensure that the student's depth of study -- which should occur in more advanced-level courses, within the major, with faculty instruction, and in areas of research -- are distinctly UW-Madison experiences. These credits do not have to be contiguous for the requirement to be met.

## QUALITY OF WORK

A student's overall quality of work and their quality of work in their chosen major are important measures of a student's mastery of knowledge. The L&S quality of work requirements are all computed on courses taken in residence only, and set a minimum 2.000 GPA in four specific areas:

- **University GPA**, computed using all courses taken for a grade at UW-Madison
- **Mastery of Intermediate/Advanced work in LAS courses**, computed using all graded courses designated as LAS and as either Intermediate or Advanced level
- **Major GPA**, which is computed using all courses in each declared major and all courses in the subject of that major (if applicable)
- **Upper-Level work in the Major**, which is computed using all courses designated as upper-level in each declared major

For the University GPA, all graded courses compute into this grade point average, including courses that are failed and those that were repeated without credit.

For the other three L&S GPA, all graded courses, including courses that are failed, compute into the grade point average, except for non-repeatable courses for which credit has already been earned; these courses are considered to be taken on a "refresher basis" and do not calculate into any GPA, except for the University GPA. See Repeat of Courses Not for Credit (p. ) in Policies & Regulations for more information.

## RESOURCES

## ADVISING IN LETTERS & SCIENCE

Academic advising is an essential component of undergraduate education, and the college's commitment to providing quality advising for undergraduates is reflected in the many advising programs it offers. Students who have not yet declared a major are assigned an advisor in L&S Academic Advising Services or the Cross-College Advising Service (see below). Students who have declared a major are assigned an advisor in their department or program.

All of the advising programs share the goal of assisting students in making responsible, informed decisions as they develop educational plans compatible with their potential, their interests, and their career and life ambitions. Advisors provide much more than information about course selection and academic programs; they encourage students to ask questions about the nature and direction of their learning, and they work with students to find meaningful answers to those questions. Advising involves a process in which students learn to think critically about the variety of options available to them and develop decision-making skills that will enable them to choose wisely. As adults, students themselves, however, must assume primary responsibility for choosing their academic program and making progress toward their degree.

### ACADEMIC ADVISING SERVICES (AAS)

L&S Academic Advising Services (<https://advising.lis.wisc.edu/>) provides advising to undergraduate students who intend to complete a specific L&S degree, before they have declared a major.

We assist and support students in exploring their educational goals, learning about academic requirements, navigating the university structure, and progressing toward degree completion.



## CROSS-COLLEGE ADVISING SERVICES (CCAS)

Advisors at the Cross-College Advising Service (CCAS) provide personalized advising to help you develop a plan for choosing your major and exploring careers. We are here to help you make decisions about what to major in and also answer your general questions about academics and life on campus.

We'll meet you at SOAR, and after that help you plan your future courses, talk about your academic interests and options, and refer you to other helpful campus resources. We're also here to encourage you when things are going well, as well as support you when times are difficult.

## CENTER FOR ACADEMIC EXCELLENCE (CAE)

The Center for Academic Excellence (<https://cae.ls.wisc.edu/>) provides an enriching, inclusive community and academic support for L&S students who have been historically underrepresented in higher education. CAE offers a variety of engagement opportunities, including advising, tutoring programs, health and wellness events, social events, graduate school preparation, and connections with learning communities.

## HONORS

The L&S Honors Program (<https://honors.ls.wisc.edu/>) attracts some of UW-Madison's most talented undergraduates who challenge and learn from each other while working closely with faculty members. By bringing students and professors closer together in small classes and individual research settings, the Honors Program fosters a feeling of community even as students push themselves to explore the very frontiers of knowledge. In addition to traditional course work, most Honors students pursue research projects of their own, and many find this experience so exciting that they go on to earn advanced degrees in the nation's best graduate and professional schools.

## MAJOR ADVISING

Students who are eligible to declare their major should do so as soon as possible. All L&S undergraduate students are expected to declare a major by the time they have earned 86 degree credits. All declared students will be advised by the advisor connected with their particular major/program. For more information about advising in the major, refer to the advising and careers tab for each major/special degree program under the L&S Degrees/Majors/Certificates (p. 361) section of the Guide.

## OTHER ACADEMIC RESOURCES

### L&S UNDERGRADUATE ACADEMIC DEANS' SERVICES

L&S Undergraduate Academic Deans' Services (<https://deans.ls.wisc.edu/>) provide up-to-date information on college policies, procedures, and deadlines; campus resources; and degree requirements. Academic deans also offer limited academic advising and make decisions regarding exceptions to college policy. They work closely with advising staff in L&S Academic Advising Services, major advisors, and other student service personnel on the UW-Madison campus. In an institution as diverse as the University of Wisconsin-Madison, students have a wide range of values, interests, and skills. Moreover, as they progress through an academic program, their questions and concerns often change. Therefore, students are encouraged to seek the help of several different types of academic advisors during their years on campus. The university

provides a system of staff and faculty advisors to address these ongoing and changing concerns.

## ADVISING IN THE MAJOR

Juniors, seniors, and any other students who are preparing for, or have declared, a major or are contemplating a major in the College of Letters & Science, are encouraged to meet with an advisor in that major department. Each department has a faculty or staff member who serves as a major advisor. This person knows about prerequisites to courses, program planning for students majoring in the department, major requirements, and in some cases, general career information related to the field. A major advisor can help students make satisfactory progress toward completing requirements in the major, and can suggest courses that address students' interests and help them achieve their goals.

Juniors and seniors are encouraged to seek advice from these major advisors as soon as possible. **Please note that the assignment of a major advisor and declaring a major in a particular department(s) are not automatic. Students must reach out to the major advisor to declare their desired L&S major.** Students are also advised to meet with the major's advisors early in their academic career since some majors require students to fulfill prerequisite classes and earn a minimum GPA in the designated coursework before they are eligible to declare the specific major. It is very important that students contact the major department(s) as early as possible so they are aware of any prerequisites.

Transfer students often come to the campus knowing their intended major. These students may go directly to the major advisors for any help they need in pursuing/declaring the major.

Students classified in any of the special degree programs (Applied Mathematics, Engineering and Physics, Journalism, Landscape Architecture, Music: Education, Music: Performance, Social Work) may refer to the specific special degree under Degree/Majors/Certificate (p. 361) tab within this Guide for major advisor information, then consult with the appropriate advisor.

Students pursuing Honors in the Major are encouraged to work closely with the honors coordinator in their major department regarding course and research opportunities within the department or field of interest. Special major advisors are available to help any students, primarily sophomores, juniors, and seniors, who have decided on their major. These advisors are located in department offices throughout the campus. Office hours vary among departments. Consult individual majors and departments for a list of offices and locations, or see the department descriptions in this Guide (<https://guide.wisc.edu/undergraduate/letters-science/#degreesmajorscertificatestext>).

## INTERNATIONAL INTERNSHIP PROGRAM (IIP)

The International Internship Program (IIP) (<https://internships.international.wisc.edu/>) at UW-Madison is a resource for undergraduate students from all disciplines seeking to gain hands-on international experience. IIP's mission is to identify, cultivate and promote high-quality internships that advance the professional training of UW-Madison undergraduate students; foster global competency; and reinforce academic learning through practical application.

IIP cultivates internship opportunities around the world specifically for Badgers. IIP also identifies and promotes existing international internship and research opportunities offered by other campus offices or international organizations. Both types of opportunities can be found via

the IIP database and other search resources are also listed on the website. IIP offers advising for any undergraduates who are exploring internships abroad whether they are just getting started, applying to an IIP-cultivated position, or finding their own. IIP can help with the many questions that come up related to international internships including visas, agreements, academic credit, and scholarships.

The Worldwide Internship Program (WIP) (<https://studyabroad.wisc.edu/program/?programId=343>), a collaboration between International Academic Programs (IAP) and the International Internship Program (IIP) (<https://internships.international.wisc.edu/>), allows UW-Madison undergraduates to earn academic credit for an internship located outside the US. This program is open to students from any major. Internships are located in many countries and types of organizations (companies, non-profit organizations, government agencies, research centers, etc).

An international internship is often located outside the United States, but IIP also promotes internship opportunities to apply international skills and interests domestically. There are many variables in international internships (compensation, duration, location, fees, credit and more) that IIP can help navigate.

For more information on interning abroad visit International Internship Program (<https://internships.international.wisc.edu/>).

## PRE-PROFESSIONAL STUDY

General information can be found at Pre-Law (<https://prelaw.wisc.edu/>) and Pre-Health (<https://prehealth.wisc.edu/>).

## SCHOLARSHIPS

The College of Letters & Science welcomes incoming and continuing students to apply for scholarship opportunities created by the support of our donor friends. The undergraduate scholarship program provides support to students who intend to receive a degree from the College of Letters & Science. With over 63 majors and special degree programs which include journalism, landscape architecture, music, social work, and applied mathematics, engineering, and physics (p. 361), the College of Letters & Science strongly supports the role of a broad and deeply educated citizenry. L&S graduates use this strong foundation to flourish in their chosen careers. For more information, see overview of scholarships (<http://scholarships.ls.wisc.edu/>).

## STUDENT ACADEMIC AFFAIRS (SAA)/COLLEGE OF LETTERS & SCIENCE RESOURCES

### ADVISING & ACADEMIC PROGRAMS AND SERVICES

**General academic questions:** Academic Help Line, 608-262-5858

#### Academic Information Management (AIM)

326 Bradley Memorial Building

Provides several services such as accurate curriculum audit and degree progress information to students, advisors, and other stakeholders, as well as policy analysis & data to L&S administration, committees, departments & academic enrichment programs

Center for Academic Excellence (<http://cae.ls.wisc.edu/>)  
B47 Bascom Hall, 608-263-5068

Advising, academic support, advocacy, and community connections for first-generation, low-income, and multicultural underrepresented students within the College of Letters & Science

College of Letters & Science Academic Advising Services (AAS) (<http://advising.ls.wisc.edu/>)

101 Ingraham Hill, 1155 Observatory Drive, 608-265-5858

Provides comprehensive advising services for students investigating and preparing for majors in the College of Letters & Science

L&S Undergraduate Academic Deans' Services (<https://deans.ls.wisc.edu/>)

101 Ingraham Hall, 1155 Observatory Drive, 608-262-0617

Provides up-to-date information on college policies, procedures, and deadlines; campus resources; and degree requirements

L&S Honors Program (<http://honors.ls.wisc.edu/>)

Students admitted to or interested in the Honors Program

L&S SuccessWorks (<https://successworks.wisc.edu/>)

Career advising and development for students and alumni in L&S

Undergraduate Research Scholars (URS) (<https://urs.ls.wisc.edu/>)

Helps first- and second-year undergraduates get hands-on experience in research

## STUDY ABROAD

About 25% of undergraduates make study abroad an integral part of their UW-Madison experience.

International Academic Programs (IAP) (<https://studyabroad.wisc.edu/overview/>) at UW-Madison offers over 200 study abroad options in about 60 countries on 6 continents. In addition to taking the opportunity to learn new languages, understand new cultures and see the world, UW-Madison students study abroad to complement their on-campus academic goals, strengthen their professional potential and enrich their personal lives.

Students of all academic levels and majors study abroad. While many programs include language training—from the basics to full language immersion—most IAP programs have no language requirement and include courses taught in English.

All courses taken abroad through IAP count as “in-residence” credit, just like taking courses on campus at UW-Madison, so students advance toward their degrees while abroad. And study abroad isn’t limited to classroom experience. Many students also complete internships, do research, fieldwork and service learning.

In addition to resources on health, safety, academic planning and other aspects, UW-Madison students receive the information and guidance they need to plan a study abroad experiences that fits their budgets. Many study abroad programs cost about the same or less than studying on campus, and student financial aid can be applied in most cases.

## SUCCESSWORKS

SuccessWorks (<https://successworks.wisc.edu/>) helps students build a bridge from the academic skills learned in the classroom to the internships that inspire them and the jobs they dream of starting after graduation.

In addition to providing basic career support like resume reviews and interview practice, SuccessWorks offers students ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

SuccessWorks Career Communities (<https://successworks.wisc.edu/what-are-career-communities/>) encourage students to explore jobs and fields where alumni have built fulfilling careers, then dive deep into building skills and experiences once they have discovered the right path - or paths - for them. Each Career Community connects students to expert one-on-one advising, plus a network of supportive alumni mentors and highly engaged employers seeking to hire L&S students for jobs and internships. Through Career Communities, students take advantage of experience-based programs that help them build skills and try out different occupations with real employers.

SuccessWorks recognizes students don't need to have it all figured out right away. They're here to help students take their first steps, then craft their unique paths toward a lifetime of success. It's never too early to get inspired and get started!

## UNDERGRADUATE RESEARCH SCHOLARS PROGRAM

The Undergraduate Research Scholars program (<https://urs.ls.wisc.edu/>) (URS) is dedicated to enhancing the academic experience of UW-Madison students by providing first- and second-year undergraduates with opportunities to earn credit for participating in the research and creative work with UW-Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities.

### HONORS

## L&S HONORS PROGRAM

The College of Letters & Science Honors Program seeks to provide students with a small, liberal arts college experience within this large university. The Honors Program is home to more than 1,600 motivated, curious and high-achieving students, all pursuing one of three degree tracks: Honors in the Liberal Arts, Honors in the Major, or Comprehensive Honors—the highest undergraduate degree awarded by the college. In addition to an enhanced curriculum that offers small, faculty-led courses, the program also offers academic advising services; grants, scholarships, and awards; and many professional development and co-curricular opportunities. Events, term-specific deadlines, course descriptions for the upcoming semester and much more can be found on the L&S Honors Program website (<http://honors.ls.wisc.edu/>). We welcome inquiries via phone at 608-262-2984. The L&S Honors Program is located in the historic Washburn Observatory at 1401 Observatory Drive in Madison, WI 53706.

## HOW TO GET IN

Students may apply to enter the L&S Honors Program in any semester of their undergraduate careers. Any UW-Madison Honors credits earned before admission to the Honors Program may be applied toward Honors degree requirements. Eligibility criteria and admissions procedures differ for the different Honors degrees.

## ADMISSION TO HONORS IN THE LIBERAL ARTS (HLA)

To become a candidate for the Honors in the Liberal Arts degree, a student must apply directly to the L&S Honors Program. Students may

apply at any point in their undergraduate careers provided they meet the eligibility requirements described below.

All students admitted to the university and to the College of Letters & Science are invited to apply to be considered for admission to the Honors Program to pursue the Honors in the Liberal Arts degree. Interested students can apply via an online application form. L&S admitted students receive an invitation message by email that contains the URL to the online application. Admission to the program is competitive, and space is limited.

Continuing and transfer students with a cumulative grade point average of 3.300 or above who are currently enrolled at UW-Madison or who are transferring to UW-Madison from another college or university may apply to the L&S Honors Program at any time. Applications are available from the Honors Program website (<http://honors.ls.wisc.edu/>) and admission decisions are usually made within three weeks of submission of the completed application and supporting materials. While continuing or transfer students having 60 or more credits at the time of application to the Honors Program are eligible to participate in the Honors in the Liberal Arts (HLA) degree track, they are encouraged to consider Honors in the Major (HM) as an option (see below), since they may find it difficult to complete the HLA degree requirements if beginning that program in the junior or senior year.

## ADMISSION TO HONORS IN THE MAJOR (HM)

Students interested in pursuing an Honors in the Major degree are encouraged to consult the department listings (p. 361) in this Guide and speak with the department's academic advisors, who will be able to explain admissions procedures and requirements for the degree. After officially declaring the major and receiving authorization from the department to declare Honors in the Major, students must complete an online Honors in the Major Declaration Form to the Honors Program office.

## REQUIREMENTS

Honors may be earned in any L&S undergraduate degree (Bachelor of Arts; Bachelor of Science; Bachelor of Science–Applied Mathematics, Engineering, and Physics; Bachelor of Arts–Journalism or Bachelor of Science–Journalism; Bachelor of Landscape Architecture; Bachelor of Music; and Bachelor of Social Work). For students who complete the requirements, Honors will appear on diplomas and transcripts (for example, B.A. with Honors in the Liberal Arts or B.S. with Honors in the Major).

## HONORS IN THE LIBERAL ARTS (HLA)

Honors in the Liberal Arts is often the primary focus for most first- and second-year Honors students. It requires students earn Honors credits in a breadth of disciplines and is meant to enrich and enhance a student's academic experience outside of the major. Students who complete this curriculum develop strong skills in communication, critical thinking and complex problem solving, which will serve them well regardless of career path. The specific requirements for the HLA degree are:

1. completion of the L&S general degree requirements;
2. a cumulative grade point average of at least 3.300;
3. completion of at least 24 credits in Honors courses with grades of B or better;
4. of the 24 Honors credits, at least 6 must be in the humanities, 6 in the social sciences, and 6 in the natural sciences; and
5. of the 24 Honors credits, at least 15 must be "Automatic Honors" credits—that is, in courses that carry the "Honors Only" or

"Accelerated Honors" designations in the Course Guide (<http://public.my.wisc.edu/>).

## HONORS IN THE MAJOR (HM)

Most majors in the College of Letters & Science offer students the option of pursuing Honors in the Major. A student may formally declare their intent to earn Honors in the Major, if available, after declaring the major. Honors in the Major requirements can be completed independently from Honors in the Liberal Arts; they may also be completed in conjunction with Honors in the Liberal Arts (which would result in a Comprehensive Honors degree). Each academic department and program in the college, with approval of the Faculty Honors Committee, establishes its own requirements for the Honors in the Major degree. Honors in the Major is intended for students who are interested in original research and who wish to graduate with the best possible undergraduate training in the discipline. Honors in the Major is especially appropriate for students who are considering graduate work, or who want a particularly rigorous training in research, reasoning, and writing skills useful to a wide range of career choices.

Although many of the specific requirements for HM vary by department, all students pursuing Honors in the Major must:

1. complete the L&S general degree requirements, if an L&S degree candidate<sup>1</sup>;
2. complete the regular major requirements;
3. obtain an overall cumulative grade point average of at least 3.300;
4. earn a grade of B or better in all courses counting towards Honors in the Major requirements; and
5. successfully complete a capstone experience during their senior year, typically a Senior Honors Thesis (see below for more information).

1

Non-L&S degree candidates may pursue Honors in the Major, but will not receive an L&S degree.

In addition to these collegewide requirements, Honors in the Major students may be required to complete additional upper-level, Honors coursework; participate in department research colloquia; and meet a minimum grade point average in all classes in the major (typically between 3.300 and 3.500).

As mentioned above, most departments require a Senior Honors Thesis as the culmination of their Honors in the Major curriculum. In departments for which a research thesis is not the most appropriate capstone, an alternative such as a performance, a professional practicum, or a major piece of creative writing may be required instead. The two-semester Honors thesis or capstone project is often the most challenging part of the Honors in the Major experience, and for most students it also proves to be the most rewarding. The Senior Honors Thesis is a two-semester (or summer and semester) effort; students first enroll in Senior Honors Thesis 681, followed the next term by Senior Honors Thesis 682 (some departments may use different numeric designations for Senior Honors Thesis options). These two courses may not be taken concurrently. The final grade for the entire thesis is assigned after 682 has been completed.

Students who intend to complete Honors in the Major and write a Senior Honors Thesis should consult with department advisors as early as possible. They are also strongly encouraged to begin working with a faculty advisor no later than the beginning of the junior year in order to formulate a research topic, which will enhance the student's potential for success in research grant funding cycles for their senior year. Some departments

offer special courses designed to facilitate the organization, planning, and execution of Honors thesis projects. Other departments encourage (and some require) students to take a directed study or tutorial course with the thesis advisor sometime during the junior year. Students who receive funding from the L&S Honors Program for their thesis research should submit an unbound copy of their thesis to the Honors Program Office.

Students pursuing Honors in the Major in two majors may apply for Dual Thesis Authorization, which will allow them to write one interdisciplinary thesis to satisfy both major capstone requirements. Please see the Honors Program to learn more about the application process prior to enrolling in the 681 course.

Prior authorization is needed when students intend to complete either 681 or 682 while away from UW–Madison. Consult with the Honors Program if this is your intention.

## COMPREHENSIVE HONORS

Students who complete the requirements for both Honors in the Liberal Arts and Honors in the Major in at least one department or program earn Comprehensive Honors, the highest undergraduate degree awarded by the College.

## HOW TO EARN HONORS CREDIT

There are three unique Honors course designations, each described here:

- "Honors Only" courses are reserved for Honors candidates. They are generally small classes, led by a faculty member and designed for substantive engagement, or discussion sections or labs reserved for Honors students in larger non-Honors lecture courses. The enrollment system will automatically assign Honors credit to all enrolled students.
- "Accelerated Honors" are open to all students. Honors credit is awarded in recognition of the rigor and pace of the course. These Honors courses are often conducted at a faster pace than the non-Honors course counterparts or are upper-level capstone courses in a major that require significant engagement with the course material. As with "Honors Only" designated courses, the enrollment system will automatically assign Honors credit to all enrolled students.
- "Honors Optional" designates courses for which Honors is available through an optional Honors component of the course curriculum. These courses are open to all students for enrollment. Opting into the Honors component of the course is done through the enrollment process. Students enrolled in an "Honors Optional" course are advised to consult with the instructor during the first weeks of the term to determine the Honors curriculum if it is not outlined on the syllabus. Instructors either have designated Honors curricula or students may be encouraged to develop a project idea of their own. These "Honors Optional" courses are sometimes denoted with the symbol "%".

When the Schedule of Classes is published for the upcoming term, students can use the Enroll App to identify which courses are being offered for Honors and with which designation. A course being offered for Honors in a past term in no way guarantees that it will be offered for Honors in a future term.

Honors candidates may also earn Honors credit through the following methods:

- Designing and successfully completing an additional Honors project for a course not carrying any of the Honors designations above in the given term. This option requires consent of the instructor and approval of the L&S Honors Program. To request permission from the Honors

Program, students must submit a completed Green Sheet proposal form and all supporting documentation to the Honors Program no later than the sixth week of a regular semester, or the third week of an eight-week summer term. Green Sheets are available on the Honors Program website (<https://honors.ls.wisc.edu/>). Supporting documentation includes a written plan and timeline for the additional Honors project and a Course Change Request Form. Additional Green Sheet information and the proposal form are available on the Honors Program website (<https://honors.ls.wisc.edu/>).

- Students who study abroad on a non-Honors study abroad program may petition to have one course per semester abroad count toward Honors requirements. Upon returning from abroad, students are asked to write a petition in which they are required to reflect on the nature of the course taken abroad and explain why the course meets the desired criteria for general Honors credit, Honors breadth credit and/or Automatic Honors credit. For more details about the petition process, please consult the Honors Program website (<https://honors.ls.wisc.edu/>).
- Studying abroad in an Honors Study Abroad Program. (Currently programs are available in Ecuador and Utrecht, Netherlands.) Students may earn up to 16 Honors credits. Students receive Honors credit in these cases through the study abroad equivalency process upon their return from abroad.

In all cases, to receive Honors credit in a course, students must earn a final grade of B or higher in that course. If a grade of BC or lower is earned in an Honors course, the Honors notation remains on the student's record, but the course does not count toward Honors degree requirements. If the course is retaken for Honors, regardless of the grade earned during this second attempt, the course cannot satisfy an Honors degree requirement.

Students may not receive Honors credit in courses carried on a pass/fail basis.

## ADVISING AND CAREERS

The University of Wisconsin–Madison can seem overwhelming because of its size and the complexity of its policies and procedures. Academic advisors help students get (and maintain) their bearings on campus. The L&S Honors Program has a team of specially trained academic and peer advisors who accompany and support Honors candidates as they pursue diverse educational and co-curricular experiences compatible with their long-term goals. Advising occurs through a variety of formats including small group workshops, individual appointments, drop-in hours and email. Additional information is available on the Honors Program website (<http://honors.ls.wisc.edu/>).

The L&S Honors Program encourages our students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S SuccessWorks office to help students leverage the academic skills learned in your major(s) and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, regardless of major or career goals.

## PEOPLE

Please see the L&S Honors website (<https://honors.ls.wisc.edu/meet-the-honors-team-members/>) to find Honors Team Members, including

the Director, Associate Directors, Program Administrators, and Academic Advisors.

## POLICIES

### CRITERIA FOR REMAINING IN GOOD STANDING IN HLA

Students must obtain a grade point average of 3.300 or higher to be eligible to graduate with an Honors in the Liberal Arts degree. As such, we encourage students to strive for at least this GPA each academic term. The Honors Program advising team will work with students on an improvement plan should their GPA drop below 3.300. Students must also make satisfactory progress toward degree requirements, meaning:

1. successfully complete (grade of B or higher) at least one Honors course (any designation) by the end of the third semester on campus and
2. successfully complete (grade of B or higher) at least two Automatic Honors courses by the end of the fifth semester on campus.

Students may withdraw from HLA at any time by completing an Honors in the Liberal Arts Withdrawal Form, available from the Honors Program office, and submitting it to the Honors Program.

### CRITERIA FOR REMAINING IN GOOD STANDING IN HM

Because each department sets its own criteria for the HM degree program, students are encouraged to work closely with departmental advisors to stay on track towards successful completion. In addition to the criteria established by individual departments, all students must obtain a cumulative grade point average of 3.300 or higher in UW–Madison coursework to be eligible to graduate with the Honors in the Major degree. Students may withdraw from HM at any time by submitting an online Honors in the Major Withdrawal Form, available from either the department advisor or the Honors Program office.

### HONORS IN THE INDIVIDUAL MAJOR

To complete the Individual Major with Honors, the student must earn Honors credit in at least 20 of the 36 or more credits comprising the Individual Major and must complete a Senior Honors Thesis of 6–8 credits.

Students wishing to complete an Honors in the Major degree with an Individual Major should append to their Individual Major proposal a specific outline of how the Honors in the Major requirements would be met, including appropriate Honors-caliber courses, upper-level seminars, and a two-semester capstone project, typically a Senior Honors Thesis. The proposal for Honors in the Individual Major will be reviewed by the Honors Program Associate Director for Academic Services. This individual is authorized to determine whether requests for exceptions to the approved HM requirements will be approved.

### HONORS TRANSFER CREDIT

Honors credit earned at other institutions is not currently accepted towards L&S Honors Program degree requirements.

## GRANTS AND AWARDS

The L&S Honors Program strives to support Honors students as they pursue original research, study abroad, attend academic conferences, and pursue other endeavors that complement their learning and growth. The following funding opportunities are regularly offered. Please see the L&S Honors Program website (<http://honors.ls.wisc.edu/>) for additional

opportunities, specific deadlines and additional information about the applications process.

## **SOPHOMORE SUMMER HONORS RESEARCH APPRENTICESHIPS**

These competitively awarded grants provide funding for Honors students who learn more about the research process by working as research apprentices with UW–Madison faculty. Students may not earn course credit for this work. For past students, these apprenticeships often evolved into paid research positions and/or Senior Honors Thesis projects. Applications for the apprenticeships are submitted and considered early in the spring term.

## **TREWARTHA UNDERGRADUATE THESIS RESEARCH AWARD**

This grant enables Honors students to undertake more demanding and extensive Honors Senior Thesis research projects than might otherwise be possible. Besides recognition of an excellent thesis proposal, grant recipients receive funds (up to \$1500) to cover travel expenses and other costs needed to complete the research. These resources may enable students to travel to archives or research sites, or to initiate other research activities that require special funding. Each year 12–16 Trewartha awards are granted. Applications for the Trewartha are submitted and considered during the fall term.

## **MARK MENSINK HONORS RESEARCH GRANT**

The Mark Mensink Honors Research Grant is the L&S Honors Program's most prestigious grant, awarded in recognition of an exceptional thesis proposal. The purpose of the grant is to enable its recipient to undertake more demanding and extensive Honors senior thesis research than might otherwise be possible due to limited resources or time. Students do not apply specifically for the Mensink award.

## **HONORS SUMMER SENIOR THESIS RESEARCH GRANT**

These grants enable students to undertake more demanding and extensive senior thesis research projects than might otherwise be possible. Besides recognition of an excellent thesis proposal, grant recipients are awarded a cash stipend of up to \$3000 to cover research-related expenses. Such resources may enable students to travel to archives or research sites, arrange participant interviews or initiate other research activities that require special funding. Applications for summer research grants are submitted and considered during the spring term.

## **LEADERSHIP AWARD**

The Leadership Trust Award supports students as they plan, develop and implement projects designed to improve UW–Madison, the community and/or the university student body. Each year, up to two (2) students receive awards equal to two (2) semesters of resident, full-time tuition plus project funds up to \$3000 as justified in the submitted project budget. Past award recipients have established mentoring programs for underrepresented students; collaborated with local organizations to improve community access to fresh, healthy and local produce; and founded an academic journal, the Madison Journal of Literary Criticism, to increase students' opportunities to see their work published. Applicants are asked to identify a UW–Madison faculty member who will serve in an advisory/resource capacity and award winners are expected to submit progress reports to the L&S Faculty Honors Committee. Applications for the Leadership Award are submitted and considered during the spring term for the following academic year.

## **STUDY ABROAD AWARDS**

Up to four \$1,500 travel awards will be awarded to eligible L&S Honors Program students who plan to study abroad. Students studying for either a semester or a year abroad are eligible, however preference will be given to students participating in a year-long program. Applications for this funding opportunity are available in the spring term.

## **BROMLEY RESEARCH CONFERENCE TRAVEL GRANT**

These awards are meant to support students who present at and/or attend regional or national professional conferences. Priority is given to those who plan to present. The award amount is up to \$500. The application process is competitive and students with the most promising proposals are selected.

# **AFRICAN AMERICAN STUDIES**

The Department of African American Studies at the University of Wisconsin–Madison offers students an opportunity to study those aspects of black history, culture, and society in ideal interdisciplinary models that reconstruct African American life. It challenges students to critically examine facts and issues that are historically and contemporaneously relevant to the African American experience. The department offers an undergraduate major and certificate. The M.A. program is based on personalized programs of study shaped to meet the needs of individual students, many of whom participate in the “Bridge” programs which enable them to move directly into Ph.D. programs in English and History. Faculty members and students are active in a broad range of activities, including hip-hop programs for at-risk youth, community theater, college classes for low-income adults, and the Public History Project. The department prides itself on positive working relationships with our colleagues in other disciplines, including the other ethnic studies programs, the departments of Gender and Women's Studies, African Cultural Studies, English, History, Interdisciplinary Theatre Studies, and the School of Education. A vibrant community of scholars and students who believe in the ideal of unity without uniformity, we welcome all those committed to a deeper understanding of race and ethnicity in America and the world.

## **DEGREES/MAJORS/CERTIFICATES**

- African American Studies, B.A. (p. 383)
- African American Studies, B.S. (p. 387)
- African American Studies, Certificate (p. 391)

## **PEOPLE**

Professors Adell, Clark-Pujara, Greene, Plummer, Whitmire

Associate Professor Davis

Assistant Professors Collin Wilkins, Edmonds, Ifatunji

# AFRICAN AMERICAN STUDIES, B.A.

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## HOW TO GET IN

Students should inform the Department of African American Studies office of their intention to major and be assigned an advisor within the department.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics	Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The major in African American Studies requires **a minimum of 30 credits**. 15 credits must be numbered 300 and above. Students must take 2 courses from each of the four areas listed below: 1) Literature; 2) History and Society; 3) Arts and Culture; 4) Seminars and Advanced Courses; and Electives to achieve a total of 30 credits.

### LITERATURE

Code	Title	Credits
Two Courses From:		6
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
<b>Total Credits</b>		<b>6</b>

### HISTORY AND SOCIETY

Code	Title	Credits
Two Courses From:		6
AFROAMER 151	Introduction to Contemporary Afro-American Society	
AFROAMER 231	Introduction to Afro-American History	
AFROAMER 272	Race and American Politics from the New Deal to the New Right	
AFROAMER/ HISTORY 321	Afro-American History Since 1900	
AFROAMER/ HISTORY 322	Afro-American History to 1900	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	
<b>Total Credits</b>		<b>6</b>

### ARTS AND CULTURE

Code	Title	Credits
Two Courses From:		6
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	

AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
<b>Total Credits</b>		<b>6</b>

### SEMINARS AND ADVANCED COURSES

Code	Title	Credits
Two Courses From:		6
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	
AFROAMER 631	Colloquium in Afro-American History	
AFROAMER 669	Interdisciplinary Studies in the Arts	
AFROAMER 671	Selected Topics in Afro-American History	
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	
AFROAMER 673	Selected Topics in Afro-American Society	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	
AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory	
<b>Total Credits</b>		<b>6</b>

### ELECTIVES

Code	Title	Credits
Two Courses From:		6
AFROAMER/ AMER IND/ ASIAN AM/ CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	
AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	
AFROAMER 271	Selected Topics in African American Culture	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFROAMER 302	Undergraduate Studies in Afro-American History	



AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History
AFROAMER/ GEN&WS 333	Black Feminisms
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFROAMER 456	Soul Music and the African American Freedom Movement
AFROAMER 469	Interdisciplinary Studies in the Arts
AFROAMER/ POLI SCI 519	African American Political Theory
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health
AFROAMER/ ED POL 567	History of African American Education

**Total Credits****6****RESIDENCE & QUALITY OF WORK IN THE MAJOR**

2.000 GPA in all AFROAMER and major courses

2.000 GPA on at least 15 credits of upper-level work in the major, in residence<sup>2</sup>

15 credits in AFROAMER, taken on the UW-Madison campus

**2**

Upper-level in the major includes AFROAMER courses numbered 300 and above and courses that count for the major that are designated as Intermediate or Advanced level.

**HONORS IN THE MAJOR**

Students may declare Honors in the African American Studies Major in consultation with the African American Studies undergraduate advisor(s).

**HONORS IN THE AFRICAN AMERICAN STUDIES MAJOR REQUIREMENTS**

To earn Honors in the Major in African American Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 University GPA
- 3.500 GPA in all AFROAMER courses, and all courses accepted in the major
- Complete at least one course with a cross-cultural or comparative focus:

Code	Title	Credits
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4

AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4

- Complete at least 15 credits in AFROAMER at the 500 or 600 level, to include a two-semester Senior Honors Thesis in AFROAMER 681 and AFROAMER 682, for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Familiar with the history, culture and social conditions of African Americans in the United States and, secondarily, in the African diaspora.
2. Prepared to interact effectively in a multicultural world.
3. Prepared to share the results of academic research in the area of race with their communities in Wisconsin, the U.S., and the world.
4. Prepared for careers working in institutions that address the needs of multicultural communities.
5. Develop an understanding of the connection between different disciplinary approaches to the study of race.

**FOUR-YEAR PLAN****SAMPLE FOUR-YEAR PLAN**

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved

examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
Communication-A (complete during your first year)	3	AFROMAER major course	3
Quantitative Reasoning-A (complete during your first year)	3	AFROMAER major course (Literature) <sup>2</sup>	3
Foreign Language	4	AFROAMER elective (Ethnic Studies) <sup>3</sup>	3
AFROAMER Arts & Culture course <sup>1</sup>	3	AFROMAER major course (History & Society) <sup>4</sup>	3
Elective (eg. SEED = 1 credit)	1-3	Elective	3
<b>16</b>		<b>15</b>	

### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B	4	Communication-B	3-4
INTER-LS 210 (Elective)	1	AFROMAER major course numbered 300-above (History & Society)	3
AFROMAER major course (Arts & Culture)	3	Physical Science Breadth	3
Biological Science Breadth	3	Elective	3
Elective	3	Elective	3
<b>14</b>		<b>15</b>	

### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits) <sup>4</sup>		AFROAMER major course numbered 300-higher (Literature)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	AFROMER major course numbered 300-higher	3
AFROAMER major course numbered 300 and higher	3	Science Breadth	3
Science Breadth	3	Elective	3
Elective	3	Elective	3
Elective	3		
<b>15</b>		<b>15</b>	

### Fourth Year

Fall	Credits	Spring	Credits
AFROAMER seminar	3	AFROMER Seminar	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3

Elective	3	Elective	3
<b>15</b>		<b>15</b>	

### Total Credits 120

#### 1

Many AFROAMER courses from Arts & Culture carry Humanities breadth and will also meet the L&S Breadth requirement for Humanities (up to 6 credits).

#### 2

AFROAMER literature courses will satisfy the L&S Literature Breadth requirement (6 credits of Literature course work).

#### 3

Nearly all AFROAMER courses carry the Ethnic Studies (ESR) designation and will apply to General Education and the major. Students should complete ESR within first 60 credits.

#### 4

Many AFROAMER courses in History & Society will carry Social Science Breadth and also meet the L&S Breadth requirements for Social Science (12 credits) course work.

#### 5

Students must declare a major by the time they reach 86 credits.

## ADVISING AND CAREERS

### ADVISING

Students are limited to a maximum of 6 credits of Directed Study courses (AFROAMER 199 Directed Study or AFROAMER 699 Directed Study in Afro-American Studies). With consent of the undergraduate adviser, students may substitute directed studies or thesis credits to satisfy requirements for the major.

The Department of African-American Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Success!

#### Professor Sandra Adell, Undergraduate and Certificate advisor in the major

saadell@wisc.edu  
608-262-0425  
4115 Helen C. White Hall

### CAREERS

#### African American Studies Main Office:

Department of African American Studies  
4141 Helen C. White Hall  
600 North Park Street, Madison, WI 53706  
Phone: 608-263-1642; Fax: 608-263-7198

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Adell, Clark-Pujara, Greene, Plummer, Whitmire

Associate Professor Davis

Assistant Professors Collin Wilkins, Edmonds, Ifatunji

## AFRICAN AMERICAN STUDIES, B.S.

The Department of African American Studies at the University of Wisconsin-Madison offers students an opportunity to study those aspects of black history, culture, and society in ideal interdisciplinary models that reconstruct African American life. It challenges students to critically examine facts and issues that are historically and contemporaneously relevant to the African American experience. The department offers an undergraduate major and certificate. The M.A. program is based on personalized programs of study shaped to meet the needs of individual students, many of whom participate in the "Bridge" programs which enable them to move directly into Ph.D. programs in English and History. Faculty members and students are active in a broad range of activities, including hip-hop programs for at-risk youth, community theater, college classes for low-income adults, and the Public History Project. The department prides itself on positive working relationships with our colleagues in other disciplines, including the other ethnic studies programs, the departments of Gender and Women's Studies, African Cultural Studies, English, History, Interdisciplinary Theatre Studies, and the School of Education. A vibrant community of scholars and students who believe in the ideal of

unity without uniformity, we welcome all those committed to a deeper understanding of race and ethnicity in America and the world.

## HOW TO GET IN

Students should inform the Department of African American Studies office of their intention to major and be assigned an advisor within the department.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
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Foreign Language	Complete the third unit of a foreign language.
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L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
-----------------------	--

Quality of Work	• 2.000 in all coursework at UW-Madison • 2.000 in Intermediate/Advanced level coursework at UW-Madison
-----------------	--

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The major in African American Studies requires **a minimum of 30 credits**. 15 credits must be numbered 300 and above. Students must take 2 courses from each of the four areas listed below: 1) Literature; 2) History and Society; 3) Arts and Culture; 4) Seminars and Advanced Courses; and Electives to achieve a total of 30 credits.

### LITERATURE

Code	Title	Credits
Two Courses From:		6
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	
AFROAMER 225	Introduction to African American Dramatic Literature	
AFROAMER 227	Masterpieces of African American Literature	
AFROAMER 265	African-American Autobiography	
AFROAMER 337	The Harlem Renaissance	
AFROAMER 338	The Black Arts Movement	
<b>Total Credits</b>		<b>6</b>

### HISTORY AND SOCIETY

Code	Title	Credits
Two Courses From:		6
AFROAMER 151	Introduction to Contemporary Afro-American Society	
AFROAMER 231	Introduction to Afro-American History	

AFROAMER 272	Race and American Politics from the New Deal to the New Right	
AFROAMER/ HISTORY 321	Afro-American History Since 1900	
AFROAMER/ HISTORY 322	Afro-American History to 1900	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	

**Total Credits** **6**

### ARTS AND CULTURE

Code	Title	Credits
Two Courses From		6
AFROAMER 154	Hip-Hop and Contemporary American Society	
AFROAMER 156	Black Music and American Cultural History	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER 303	Blacks, Film, and Society	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	

**Total Credits** **6**

### SEMINARS AND ADVANCED COURSES

Code	Title	Credits
Two Courses From		6
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	
AFROAMER 631	Colloquium in Afro-American History	
AFROAMER 669	Interdisciplinary Studies in the Arts	
AFROAMER 671	Selected Topics in Afro-American History	
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	
AFROAMER 673	Selected Topics in Afro-American Society	
AFROAMER 675	Selected Topics in Afro-American Culture	
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	

AFROAMER/ GEN&WS 679	Visual Culture, Gender and Critical Race Theory
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**Total Credits** 6

**ELECTIVES**

Code	Title	Credits
Two Courses From		
AFROAMER/ AMER IND/ ASIAN AM/ CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	6
AFROAMER 155	They: Race in American Literature	
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	
AFROAMER 271	Selected Topics in African American Culture	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFROAMER 302	Undergraduate Studies in Afro-American History	
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	
AFROAMER/ GEN&WS 333	Black Feminisms	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
AFROAMER 456	Soul Music and the African American Freedom Movement	
AFROAMER 469	Interdisciplinary Studies in the Arts	
AFROAMER/ POLI SCI 519	African American Political Theory	
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	
AFROAMER/ ED POL 567	History of African American Education	

**Total Credits** 6

**RESIDENCE & QUALITY OF WORK IN THE MAJOR**

- 2.000 GPA in all AFROAMER and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence<sup>2</sup>
- 15 credits in AFROAMER, taken on the UW-Madison campus

**2**  
Upper-level in the major includes AFROAMER courses numbered 300 and above and courses that count for the major that are designated as Intermediate or Advanced level.

**HONORS IN THE MAJOR**

Students may declare Honors in the African American Studies Major in consultation with the African American Studies undergraduate advisor(s).

**HONORS IN THE AFRICAN AMERICAN STUDIES MAJOR REQUIREMENTS**

To earn Honors in the Major in African American Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- 3.300 University GPA
- 3.500 GPA in all AFROAMER courses, and all courses accepted in the major
- Complete at least one course with a cross-cultural or comparative focus:

Code	Title	Credits
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4

- Complete at least 15 credits in AFROAMER at the 500 or 600 level, to include a two-semester Senior Honors Thesis in AFROAMER 681 and AFROAMER 682, for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Familiar with the history, culture and social conditions of African Americans in the United States and, secondarily, in the African diaspora.
2. Prepared to interact effectively in a multicultural world.
3. Prepared to share the results of academic research in the area of race with their communities in Wisconsin, the U.S., and the world.
4. Prepared for careers working in institutions that address the needs of multicultural communities.
5. Develop an understanding of the connection between different disciplinary approaches to the study of race.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication-A (complete during your first year)	3	AFROMAER major course	3
Quantitative Reasoning-A (complete during your first year)	3	AFROMAER major course (Literature) <sup>2</sup>	3
Foreign Language	4	AFROAMER elective (Ethnic Studies) <sup>3</sup>	3
AFROAMER Arts & Culture course <sup>1</sup>	3	AFROMAER major course (History & Society) <sup>4</sup>	3
Elective (eg. SEED = 1 credit)	1-3	Elective	3
<b>16</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B	4	Communication-B	3-4
INTER-LS 210 (Elective)	1	AFROMAER major course numbered 300-above (History & Society)	3

AFROMAER major course (Arts & Culture)	3	Physical Science Breadth	3
Biological Science Breadth	3	Elective	3
Elective	3	Elective	3
<b>14</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits) <sup>4</sup>		AFROMER major course numbered 300-higher (Literature)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	AFROMER major course numbered 300-higher	3
AFROMER major course numbered 300 and higher	3	Science Breadth	3
Science Breadth	3	Elective	3
Elective	3	Elective	3
Elective	3		
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
AFROAMER seminar	3	AFROMER Seminar	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

#### Total Credits 120

1

Many AFROAMER courses from Arts & Culture carry Humanities breadth and will also meet the L&S Breadth requirement for Humanities (up to 6 credits).

2

AFROAMER literature courses will satisfy the L&S Literature Breadth requirement (6 credits of Literature course work).

3

Nearly all AFROAMER courses carry the Ethnic Studies (ESR) designation and will apply to General Education and the major. Students should complete ESR within first 60 credits.

4

Many AFROAMER courses in History & Society will carry Social Science Breadth and also meet the L&S Breadth requirements for Social Science (12 credits) course work.

5

Students must declare a major by the time they reach 86 credits.

## ADVISING AND CAREERS

### ADVISING

Students are limited to a maximum of 6 credits of Directed Study courses (AFROAMER 199 Directed Study or AFROAMER 699 Directed Study in Afro-American Studies). With consent of the undergraduate adviser,

students may substitute directed studies or thesis credits to satisfy requirements for the major.

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Success!

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## CAREERS

**African American Studies Main Office:**

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## L&S CAREER RESOURCES

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## PEOPLE

Professors Adell, Clark-Pujara, Greene, Plummer, Whitmire

Associate Professor Davis

Assistant Professors Collin Wilkins, Edmonds, Ifatunji

## AFRICAN AMERICAN STUDIES, CERTIFICATE

The certificate in African American studies introduces undergraduate students to the interdisciplinary study of African American, African diaspora and African history, society, and culture. Students may choose courses in African American history, literature, black women's studies, art history, visual culture, music history, and sociology. The certificate offers students opportunities to engage in interdisciplinary study and practice that will complement their major and enhance their intellectual and creative participation in their chosen professions and as citizens in our global society.

## HOW TO GET IN

To declare a certificate in African American Studies, students must be enrolled as an undergraduate at the University of Wisconsin-Madison. Interested students must contact the department's undergraduate adviser to declare the certificate and be assigned a faculty adviser in their area of interest. Students may not declare both the certificate and the major in African American studies.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

Certificate students must plan with a faculty adviser a cohesive program consisting of 15 credits chosen from undergraduate AFROAMER courses.

- At least one 3-credit course must focus on Afro-American history (see list below).
- A minimum of 9 credits must be completed from AFROAMER courses numbered 300-699.
- At least one 3-credit course must be advanced (AFROAMER 500-697).
- A maximum of 3 credits of directed study (AFROAMER 699) may count toward the certificate.
- Students may not substitute courses from other academic programs or subject listings to fulfill the requirements for this program

Code	Title	Credits
All certificate students must take one 3-credit course in Afro-American history:		
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	

AFROAMER 302	Undergraduate Studies in Afro-American History	
AFROAMER/ HISTORY 321	Afro-American History Since 1900	
AFROAMER/ HISTORY 322	Afro-American History to 1900	
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	
AFROAMER 631	Colloquium in Afro-American History	
AFROAMER 671	Selected Topics in Afro-American History	
AFROAMER electives to meet the minimum credit requirement for the certificate		12

**Total Credits** **15**

## RESIDENCE & QUALITY OF WORK

- At least 8 credits must be completed in residence.
- Minimum 2.500 GPA on all certificate courses.
- Courses taken pass/fail or credit/no credit may not apply to the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. To familiarize students with the history, culture and social conditions of African Americans in the United States.
2. To introduce students to an interdisciplinary approach to the study of race, gender, and ethnicity in America.
3. To prepare students for careers in institutions that address the needs of multicultural communities.

## ADVISING AND CAREERS

### Professor Sandra Adell, Certificate Advisor

saadell@wisc.edu  
608-262-0425  
4115 Helen C. White Hall

DARS is the document of record for the Afro-American studies certificate. Students should contact the certificate advisor to make sure they are on

track to completing the program and to get confirmation of completion of the certificate.

### Main Office:

Department of African American Studies  
4141 Helen C. White Hall  
600 North Park Street, Madison, WI 53706  
Phone: 608-263-1642  
Fax: 608-263-7198

## L&S CAREER RESOURCES

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## PEOPLE

Professors: Sandra Adell, Christy Clark-Pujara, Christina Greene, Brenda Plummer, Ethelene Whitmire

Associate Professor: Thulani Davis

Assistant Professors: Langston Collin Wilkes, Brittany Edmonds, Mosi Ifatunji

## AFRICAN CULTURAL STUDIES

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans



around the world. Our faculty specialize in literature, music, film, critical applied linguistics, drama, diaspora studies, and new media. Our undergraduate program emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines. A student majoring in African Cultural Studies is prepared for careers across the globe!

Undergraduates study one of six languages offered by the department –Arabic, Hausa, Swahili, Wolof, Yoruba, and Zulu—and combine their language study with popular courses in the humanities, literature, and ethnic studies. The department offers a wide-range of course topics, including African literature and theater, contemporary cinema and music, Afro-Futurism, gender and sexuality, and internet and media studies.

Majors are encouraged to study abroad in Africa during their undergraduate careers. Study abroad programs sponsored by UW–Madison include semesters or full years in Morocco, Senegal, South Africa, Ghana, and other African nations. Other programs are available through different institutions. See International Academic Programs (<http://www.studyabroad.wisc.edu/>) and visit the Majors Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/african-cultural-studies/>).

For more information, students should feel free to contact the Department of African Cultural Studies (<http://african.wisc.edu/>).

## DEGREES/MAJORS/CERTIFICATES

- African Cultural Studies, B.A. (p. 393)
- African Cultural Studies, B.S. (p. 398)

## PEOPLE

Please visit the African Cultural Studies website (<https://african.wisc.edu/people/faculty-and-staff/>) for a complete list of faculty, instructional, and academic staff.

## AFRICAN CULTURAL STUDIES, B.A.

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans around the world. Our faculty specialize in literature, music, film, critical applied linguistics, drama, diaspora studies, and new media. Our undergraduate program emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines. A student majoring in African Cultural Studies is prepared for careers across the globe!

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Majors are encouraged to study abroad in Africa during their undergraduate careers. Study abroad programs sponsored by UW–

Madison include semesters or full years in Morocco, Senegal, South Africa, Ghana, and other African nations. Other programs are available through different institutions. See International Academic Programs (<http://www.studyabroad.wisc.edu/>) and visit the Majors Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/african-cultural-studies/>).

For more information, students should feel free to contact the Department of African Cultural Studies (<http://african.wisc.edu/>).

## HOW TO GET IN

### DECLARING THE MAJOR

Declaring the major in African Cultural Studies is as easy as meeting with the advisor. Find the African Cultural Studies advisor on Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2,000 in all coursework at UW-Madison
- 2,000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

The African Cultural Studies major consists of a combination of literature and culture courses and two semesters of an African language. The major requirements are divided into three areas: Language, Literature and Culture, and Capstone Course.

## REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 32 credits and the specific requirements include:

### LANGUAGE

Code	Title	Credits
<b>Complete one of the following language options: 8-10</b>		
AFRICAN 321 & AFRICAN 322	First Semester Arabic and Second Semester Arabic	
AFRICAN 331 & AFRICAN 332	First Semester Swahili and Second Semester Swahili	

AFRICAN 335 & AFRICAN 336 First Semester-A Language of Southern Africa and Second Semester-A Language of Southern Africa

AFRICAN 339 & AFRICAN 340 First Semester Summer Arabic and Second Semester Summer Arabic

AFRICAN 361 & AFRICAN 362 First Semester Hausa and Second Semester Hausa

AFRICAN 371 & AFRICAN 372 First Semester Yoruba and Second Semester Yoruba

AFRICAN 391 & AFRICAN 392 First Semester-A Language of West Africa and Second Semester-A Language of West Africa

**Total Credits 8-10**

## LITERATURE AND CULTURE

Code	Title	Credits
<b>Core course:</b>		<b>3</b>

AFRICAN 100 Introduction to African Cultural Expression

**Intermediate/Advanced Literature and Culture: 12**

AFRICAN/ FOLKLORE 270 The Hero and Trickster in African Oral Traditions

AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277 Africa: An Introductory Survey

AFRICAN 300 African Literature in Translation

AFRICAN/ INTL ST 302 Arabic Literature and Cinema

AFRICAN 303 African Literature and Visual Culture

AFRICAN 304 Soccer in Africa

AFRICAN 323 Third Semester Arabic

AFRICAN 324 Fourth Semester Arabic

AFRICAN 325 Colloquial Arabic

AFRICAN 326 Colloquial Arabic

AFRICAN 329 Fifth Semester Arabic

AFRICAN 330 Sixth Semester Arabic

AFRICAN 333 Third Semester Swahili

AFRICAN 334 Fourth Semester Swahili

AFRICAN 337 Third Semester-A Language of Southern Africa

AFRICAN 338 Fourth Semester-A Language of Southern Africa

AFRICAN 341 Third Semester Summer Arabic

AFRICAN 342 Fourth Semester Summer Arabic

AFRICAN 343 Fifth Semester Summer Arabic

AFRICAN 344 Sixth Semester Summer Arabic

AFRICAN/ASIAN/ RELIG ST 370 Islam: Religion and Culture

AFRICAN 373 Third Semester Yoruba

AFRICAN 374	Fourth Semester Yoruba	ART HIST 579	Proseminar in African Art
AFRICAN 393	Third Semester-A Language of West Africa	DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFRICAN 394	Fourth Semester-A Language of West Africa	ECON/A A E 477	Agricultural and Economic Development in Africa
AFRICAN 399	Directed Study of an African Language	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
AFRICAN 402	Theory of African Literature	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective
AFRICAN 406	Topics in African Literature	GEOG 355	Africa, South of the Sahara
AFRICAN 407	Topics in African Languages	HISTORY 278	Africans in the Americas, 1492-1808
AFRICAN 409	Topics in US and Global Black Music Studies	HISTORY 279	Afro-Atlantic History, 1808-Present
AFRICAN 412	Contemporary African Fiction	HISTORY 444	History of East Africa
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	HISTORY 445	History of Equatorial Africa
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
AFRICAN 435	Fifth Semester Swahili	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
AFRICAN 436	Sixth Semester Swahili	MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFRICAN/ FRENCH 440	African/Francophone Film	POLI SCI 329	African Politics
AFRICAN/ COM ARTS/ L I S 444	Technology and Development in Africa and Beyond	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
AFRICAN 445	Advanced Readings in Arabic Texts	POLI SCI 455	African International Relations
AFRICAN/ PORTUG 451	Lusophone African Literature	<b>Literature and Culture Electives: 6</b>	
AFRICAN 453	Modern African Literature in English	AFRICAN/ HISTORY 129	Africa on the Global Stage
AFRICAN 475	Fifth Semester Yoruba	AFRICAN 201	Introduction to African Literature
AFRICAN 476	Sixth Semester Yoruba	AFRICAN 202	Introductory Topics in African Cultural Studies
AFRICAN 500	Language and Society in Africa	AFRICAN 203	Introductory Topics in African Literature
AFRICAN 605	Advanced Topics in African Cultural Studies	AFRICAN 204	Introductory Topics in African Languages
AFRICAN 606	Advanced Topics in African Literature	AFRICAN/ FOLKLORE 210	The African Storyteller
AFRICAN 609	Advanced Topics in Global Black Music Studies	AFRICAN 212	Introduction to African Popular Culture
AFRICAN 669	Special Topics	AFRICAN/ FRENCH 216	Modern and Contemporary Francophone Topics
AFRICAN 681	Senior Honors Thesis	AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal
AFRICAN 682	Senior Honors Thesis	AFRICAN 230	Introduction to Yoruba Life and Culture
AFRICAN 698	Directed Study	AFRICAN 231	Introduction to Arabic Literary Culture
AFRICAN 699	Directed Study	AFRICAN 232	Introduction to Swahili Cultures
AFROAMER 302	Undergraduate Studies in Afro-American History	AFRICAN/ AFROAMER 233	Global HipHop and Social Justice
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas		
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa		
A A E/ECON 477	Agricultural and Economic Development in Africa		
ANTHRO 333	Prehistory of Africa		
ART HIST 479	Art and History in Africa		

AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women
HISTORY 105	Introduction to the History of Africa

**Total Credits** **21**

## CAPSTONE COURSE

Code	Title	Credits
1 course from the following:		3
AFRICAN 403	Theories of African Cultural Studies	
AFRICAN 405	Topics in African Cultural Studies	

**Total Credits** **3**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all AFRICAN and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in AFRICAN, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the African Cultural Studies Major in consultation with the African Cultural Studies undergraduate advisor. To earn Honors in the Major in African Cultural Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

1. Earn a 3.300 overall university GPA
2. Earn 3.300 GPA in all AFRICAN and major courses
3. Complete 15 Honors credits in the major, in residence, that includes:
  - a. 9 credits in courses numbered 200 and above
  - b. A two-semester Senior Honors Thesis in AFRICAN 681 and AFRICAN 682, for a total of 6 credits.

## FOOTNOTES

<sup>1</sup>

Courses with Intermediate or Advanced level are considered upper level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Content) Recognize canonical authors and texts, historical forms, genres, and structures, and recognize aesthetic and cultural concerns in Africa and its diasporas.
2. (Content) Demonstrate their understanding of major theories, approaches, concepts, and current and classical research findings in African and diaspora literary and cultural studies.
3. (Content) Develop a level of proficiency in the different "ways of knowing" Africa and the diaspora through language, literatures, and cultures.
4. (Research Skills) Understand their own learning processes and possess the capacity to intentionally seek, evaluate, and learn from information, and recognize and reduce bias in their thinking.
5. (Research Skills) Effectively retrieve and comprehend primary sources in English and African languages, and secondary sources from a range of disciplines.
6. (Communication Skills) Develop or improve speaking, listening, writing, reading skills in an African language, and integrate these skills to communicate effectively.
7. (Communication Skills) Communicate effectively through essays, oral presentations, and discussion, so they may share their knowledge, wisdom, and values with others across social and professional settings.
8. (Communication Skills) Show knowledge of conventional rhetorical strategies, and integrate research by other authors while distinguishing between their own ideas and those of others.
9. (Communication Skills) Write and speak across disciplinary boundaries with regard to existing research about Africa and the diaspora in the humanities and social sciences.
10. (Analytical Skills) Discuss cultural texts from various theoretical and critical perspectives, formulate ideas and make connections between literary/cultural concepts and themes.
11. (Analytical Skills) Demonstrate command of the terminology and methodology of cultural studies, construct complex arguments, and use primary and secondary sources to support arguments.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in

athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
First semester AFRICAN language		5 Second semester AFRICAN language	5
AFRICAN 100		3 AFRICAN/AFROAMER 233 or 297 <sup>1</sup>	3
Communication Part A (complete during first year)		3 Quantitative Reasoning Part A (complete during first year)	4
Biological Science Breadth		3 Physical Science Breadth	3
	<b>14</b>		<b>15</b>

### Second Year

Fall	Credits	Spring	Credits
AFRICAN 201, 202, 203, or 204 <sup>2</sup>		3 One AFRICAN or related course at Intermediate level	3
Social Science Breadth		3 Quantitative Reasoning Part B	4
Science Breadth		3 Social Science Breadth	3
Continue language study for BA/BS OR Elective		3-4 Continue language study for BA OR Elective	3-4
Elective		3 Elective	3
	<b>15-16</b>		<b>16-17</b>

### Third Year

Fall	Credits	Spring	Credits
One AFRICAN or related course at Intermediate level		3 One AFRICAN or related course at Intermediate level	3
Social Science Breadth		3 Social Science Breadth	3
Science Breadth		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

### Fourth Year

Fall	Credits	Spring	Credits
One AFRICAN or related course at Intermediate level		3 AFRICAN 403 or 405	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

### Total Credits 120-122

1

Fulfills Ethnic Studies, Social Science OR Humanities requirement

2

Fulfills Communication Part B, Literature OR Humanities requirement

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Contemporary Arabic Literature and Culture* and *South Africa's Truth and Reconciliation Commission* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your academic challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

### CAREERS

Humanities majors develop a wide variety of skills and talents, so they're prepared for just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

One of the more significant skills ACS majors develop is **language acquisition**. We offer a number of funding opportunities (<https://languages.wisc.edu/scholarships/>) to support language study, small class sizes with more opportunity for participation and cultural exchange, unique study abroad and international internship experiences, and instructors who are primarily native speakers with a keen interest in teaching. Plus, UW-Madison ranks #1 in the nation for students earning a bachelor's degree in language other than English!

In addition to the valuable language training and cultural competence an ACS major affords you, consider what you learn in the classroom as well as what you do each day to be a successful student. The skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies

- proper research design and methodology
- broader knowledge of career and graduate-study options

Count on being well-prepared for an exciting and rewarding career!

Visit our website (<https://african.wisc.edu/undergraduate-program/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the African Cultural Studies website (<https://african.wisc.edu/people/faculty-and-staff/>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

### RESOURCES FOR LANGUAGE LEARNERS

One of the most valuable resources for students interested in language study is the Language Institute and its website, Languages at UW-Madison (<http://www.languages.wisc.edu/>).

Learn more about scholarships (<http://www.languages.wisc.edu/beyond/scholarships/>) and other opportunities for funded language study.

## AFRICAN CULTURAL STUDIES, B.S.

The mission of the Department of African Cultural Studies is to research and teach the languages and expressive cultures of Africa and Africans around the world. Our faculty specialize in literature, music, film, critical applied linguistics, drama, diaspora studies, and new media. Our undergraduate program emphasizes the development and application of analytical, linguistic, and methodological tools that enable students to work effectively and imaginatively across regions, languages, cultural forms, methodologies, and disciplines. A student majoring in African Cultural Studies is prepared for careers across the globe!

Undergraduates study one of six languages offered by the department –Arabic, Hausa, Swahili, Wolof, Yoruba, and Zulu—and combine their language study with popular courses in the humanities, literature, and ethnic studies. The department offers a wide-range of course topics, including African literature and theater, contemporary cinema and music, Afro-Futurism, gender and sexuality, and internet and media studies.

Majors are encouraged to study abroad in Africa during their undergraduate careers. Study abroad programs sponsored by UW-Madison include semesters or full years in Morocco, Senegal, South Africa, Ghana, and other African nations. Other programs are available through different institutions. See International Academic Programs (<http://www.studyabroad.wisc.edu/>) and visit the Majors Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/african-cultural-studies/>).

For more information, students should feel free to contact the Department of African Cultural Studies (<http://african.wisc.edu/>).

## HOW TO GET IN

### DECLARING THE MAJOR

Declaring the major in African Cultural Studies is as easy as meeting with the advisor. Find the African Cultural Studies advisor on Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

The African Cultural Studies major consists of a combination of literature and culture courses and two semesters of an African language. The major requirements are divided into three areas: Language, Literature and Culture, and Capstone Course.

## REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 32 credits and the specific requirements include:

### LANGUAGE

Code	Title	Credits
<b>Complete one of the following language options:</b>		<b>8-10</b>
AFRICAN 321 & AFRICAN 322	First Semester Arabic and Second Semester Arabic	
AFRICAN 331 & AFRICAN 332	First Semester Swahili and Second Semester Swahili	
AFRICAN 335 & AFRICAN 336	First Semester–A Language of Southern Africa and Second Semester–A Language of Southern Africa	
AFRICAN 339 & AFRICAN 340	First Semester Summer Arabic and Second Semester Summer Arabic	
AFRICAN 361 & AFRICAN 362	First Semester Hausa and Second Semester Hausa	
AFRICAN 371 & AFRICAN 372	First Semester Yoruba and Second Semester Yoruba	
AFRICAN 391 & AFRICAN 392	First Semester–A Language of West Africa and Second Semester–A Language of West Africa	
<b>Total Credits</b>		<b>8-10</b>

### LITERATURE AND CULTURE

Code	Title	Credits
<b>Core course:</b>		<b>3</b>
AFRICAN 100	Introduction to African Cultural Expression	
<b>Intermediate/Advanced Literature and Culture:</b>		<b>12</b>
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	
AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
AFRICAN 300	African Literature in Translation	
AFRICAN/ INTL ST 302	Arabic Literature and Cinema	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN 304	Soccer in Africa	
AFRICAN 323	Third Semester Arabic	
AFRICAN 324	Fourth Semester Arabic	

AFRICAN 325	Colloquial Arabic	AFRICAN 681	Senior Honors Thesis
AFRICAN 326	Colloquial Arabic	AFRICAN 682	Senior Honors Thesis
AFRICAN 329	Fifth Semester Arabic	AFRICAN 698	Directed Study
AFRICAN 330	Sixth Semester Arabic	AFRICAN 699	Directed Study
AFRICAN 333	Third Semester Swahili	AFROAMER 302	Undergraduate Studies in Afro-American History
AFRICAN 334	Fourth Semester Swahili	AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFRICAN 337	Third Semester-A Language of Southern Africa	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFRICAN 338	Fourth Semester-A Language of Southern Africa	AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
AFRICAN 341	Third Semester Summer Arabic	A A E/ECON 477	Agricultural and Economic Development in Africa
AFRICAN 342	Fourth Semester Summer Arabic	ANTHRO 333	Prehistory of Africa
AFRICAN 343	Fifth Semester Summer Arabic	ART HIST 479	Art and History in Africa
AFRICAN 344	Sixth Semester Summer Arabic	ART HIST 579	Proseminar in African Art
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFRICAN 373	Third Semester Yoruba	ECON/A A E 477	Agricultural and Economic Development in Africa
AFRICAN 374	Fourth Semester Yoruba	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
AFRICAN 393	Third Semester-A Language of West Africa	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective
AFRICAN 394	Fourth Semester-A Language of West Africa	GEOG 355	Africa, South of the Sahara
AFRICAN 399	Directed Study of an African Language	HISTORY 278	Africans in the Americas, 1492-1808
AFRICAN 402	Theory of African Literature	HISTORY 279	Afro-Atlantic History, 1808-Present
AFRICAN 406	Topics in African Literature	HISTORY 444	History of East Africa
AFRICAN 407	Topics in African Languages	HISTORY 445	History of Equatorial Africa
AFRICAN 409	Topics in US and Global Black Music Studies	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
AFRICAN 412	Contemporary African Fiction	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	POLI SCI 329	African Politics
AFRICAN 435	Fifth Semester Swahili	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
AFRICAN 436	Sixth Semester Swahili	POLI SCI 455	African International Relations
AFRICAN/ FRENCH 440	African/Francophone Film	<b>Literature and Culture Electives:</b>	<b>6</b>
AFRICAN/ COM ARTS/ L IS 444	Technology and Development in Africa and Beyond	AFRICAN/ HISTORY 129	Africa on the Global Stage
AFRICAN 445	Advanced Readings in Arabic Texts	AFRICAN 201	Introduction to African Literature
AFRICAN/ PORTUG 451	Lusophone African Literature	AFRICAN 202	Introductory Topics in African Cultural Studies
AFRICAN 453	Modern African Literature in English	AFRICAN 203	Introductory Topics in African Literature
AFRICAN 475	Fifth Semester Yoruba	AFRICAN 204	Introductory Topics in African Languages
AFRICAN 476	Sixth Semester Yoruba	AFRICAN/ FOLKLORE 210	The African Storyteller
AFRICAN 500	Language and Society in Africa		
AFRICAN 605	Advanced Topics in African Cultural Studies		
AFRICAN 606	Advanced Topics in African Literature		
AFRICAN 609	Advanced Topics in Global Black Music Studies		
AFRICAN 669	Special Topics		



AFRICAN 212	Introduction to African Popular Culture
AFRICAN/ FRENCH 216	Modern and Contemporary Francophone Topics
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal
AFRICAN 230	Introduction to Yoruba Life and Culture
AFRICAN 231	Introduction to Arabic Literary Culture
AFRICAN 232	Introduction to Swahili Cultures
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women
HISTORY 105	Introduction to the History of Africa

**Total Credits** **21**

## CAPSTONE COURSE

Code	Title	Credits
1 course from the following:		3
AFRICAN 403	Theories of African Cultural Studies	
AFRICAN 405	Topics in African Cultural Studies	

**Total Credits** **3**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all AFRICAN and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in AFRICAN, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the African Cultural Studies Major in consultation with the African Cultural Studies undergraduate advisor. To earn Honors in the Major in African Cultural Studies students must satisfy both the requirements for the major (above) and the following additional requirements:

1. Earn a 3.300 overall university GPA
2. Earn 3.300 GPA in all AFRICAN and major courses
3. Complete 15 Honors credits in the major, in residence, that includes:
  - a. 9 credits in courses numbered 200 and above

- b. A two-semester Senior Honors Thesis in AFRICAN 681 and AFRICAN 682, for a total of 6 credits.

## FOOTNOTES

1

Courses with Intermediate or Advanced level are considered upper level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Content) Recognize canonical authors and texts, historical forms, genres, and structures, and recognize aesthetic and cultural concerns in Africa and its diasporas.
2. (Content) Demonstrate their understanding of major theories, approaches, concepts, and current and classical research findings in African and diaspora literary and cultural studies.
3. (Content) Develop a level of proficiency in the different "ways of knowing" Africa and the diaspora through language, literatures, and cultures.
4. (Research Skills) Understand their own learning processes and possess the capacity to intentionally seek, evaluate, and learn from information, and recognize and reduce bias in their thinking.
5. (Research Skills) Effectively retrieve and comprehend primary sources in English and African languages, and secondary sources from a range of disciplines.
6. (Communication Skills) Develop or improve speaking, listening, writing, reading skills in an African language, and integrate these skills to communicate effectively.
7. (Communication Skills) Communicate effectively through essays, oral presentations, and discussion, so they may share their knowledge, wisdom, and values with others across social and professional settings.
8. (Communication Skills) Show knowledge of conventional rhetorical strategies, and integrate research by other authors while distinguishing between their own ideas and those of others.

9. (Communication Skills) Write and speak across disciplinary boundaries with regard to existing research about Africa and the diaspora in the humanities and social sciences.
10. (Analytical Skills) Discuss cultural texts from various theoretical and critical perspectives, formulate ideas and make connections between literary/cultural concepts and themes.
11. (Analytical Skills) Demonstrate command of the terminology and methodology of cultural studies, construct complex arguments, and use primary and secondary sources to support arguments.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
First semester AFRICAN language	5	Second semester AFRICAN language	5
AFRICAN 100	3	AFRICAN/ AFROAMER 233 or 297 <sup>1</sup>	3
Communication Part A (complete during first year)	3	Quantitative Reasoning Part A (complete during first year)	4
Biological Science Breadth	3	Physical Science Breadth	3
<b>14</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
AFRICAN 201, 202, 203, or 204 <sup>2</sup>	3	One AFRICAN or related course at Intermediate level	3
Social Science Breadth	3	Quantitative Reasoning Part B	4
Science Breadth	3	Social Science Breadth	3
Continue language study for BA/BS OR Elective	3-4	Continue language study for BA OR Elective	3-4
Elective	3	Elective	3
<b>15-16</b>		<b>16-17</b>	

#### Third Year

Fall	Credits	Spring	Credits
One AFRICAN or related course at Intermediate level	3	One AFRICAN or related course at Intermediate level	3
Social Science Breadth	3	Social Science Breadth	3
Science Breadth	3	Elective	3
Elective	3	Elective	3

Elective	3	Elective	3
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
One AFRICAN or related course at Intermediate level	3	AFRICAN 403 or 405	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

#### Total Credits 120-122

1

Fulfills Ethnic Studies, Social Science OR Humanities requirement

2

Fulfills Communication Part B, Literature OR Humanities requirement

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Contemporary Arabic Literature and Culture* and *South Africa's Truth and Reconciliation Commission* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors also know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your academic challenges and difficulties
- Connecting with tutors
- Picking a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

### CAREERS

Humanities majors develop a wide variety of skills and talents, so they're prepared for just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

One of the more significant skills ACS majors develop is **language acquisition**. We offer a number of funding opportunities (<https://>

languages.wisc.edu/scholarships/) to support language study, small class sizes with more opportunity for participation and cultural exchange, unique study abroad and international internship experiences, and instructors who are primarily native speakers with a keen interest in teaching. Plus, UW-Madison ranks #1 in the nation for students earning a bachelor's degree in language other than English!

In addition to the valuable language training and cultural competence an ACS major affords you, consider what you learn in the classroom as well as what you do each day to be a successful student. The skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- proper research design and methodology
- broader knowledge of career and graduate-study options

Count on being well-prepared for an exciting and rewarding career!

Visit our website (<https://african.wisc.edu/undergraduate-program/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the African Cultural Studies website (<https://african.wisc.edu/people/faculty-and-staff/>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

### RESOURCES FOR LANGUAGE LEARNERS

One of the most valuable resources for students interested in language study is the Language Institute and its website, Languages at UW-Madison (<http://www.languages.wisc.edu/>).

Learn more about scholarships (<http://www.languages.wisc.edu/beyond/scholarships/>) and other opportunities for funded language study.

## AMERICAN INDIAN AND INDIGENOUS STUDIES PROGRAM

The American Indian and Indigenous Studies Program seeks to provide and maintain the highest levels of education, scholarship, leadership, and support to all students, staff, and faculty at the university. As an integral part of the university, the program maintains a special focus on assisting and supporting American Indians in their educational endeavors. In addition to the commitment to the university community, the program provides consultation and services to numerous local, state, and national organizations.

It is the mission of the American Indian and Indigenous Studies Program to provide leadership to other university departments and programs in the pursuit of American Indian course development and scholarship. In addition, the program serves as a resource center and support for individuals who are interested in American Indian culture, history, research, and contemporary life.

## DEGREES/MAJORS/CERTIFICATES

- American Indian and Indigenous Studies, Certificate (p. 404)

## PEOPLE

### DIRECTOR

Denise Wiyaka, American Indian & Indigenous Studies

### FACULTY

- Leah Horowitz, Environmental Studies
- Kasey Keeler, Civil Society & Community Studies
- Kai Pyle, Gender & Women's Studies
- Sasha Suarez, History
- Matt Villeneuve, History

## STAFF

- Susan Dominguez, Senior Lecturer

For a full list of faculty and staff, please see the department website (<https://amindian.wisc.edu/people/>).

# AMERICAN INDIAN AND INDIGENOUS STUDIES, CERTIFICATE

## CERTIFICATE IN AMERICAN INDIAN STUDIES

A certificate in American Indian & Indigenous Studies is a way of giving recognition to students who have made a significant effort to learn about American Indian & Indigenous culture and the place of American Indians in American society. Students receiving a certificate will have the achievement officially recorded via transcript notation.

## WHAT CAN I DO WITH A CERTIFICATE IN AMERICAN INDIAN & INDIGENOUS STUDIES?

Students of American Indian & Indigenous Studies go on to successful careers in administration, advising, academics, advocacy, the arts, business, community outreach, consulting, education, government, health or health education, journalism, library science, literacy programming, lobbying, management, politics, publishing, school counseling, social work, research, and many more.

## HOW TO GET IN

To begin the certificate declaration process, students must submit the Certificate Program Application form to the American Indian and Indigenous Studies office. This form can be found on our Certificate Website (<https://amindian.wisc.edu/certificate-program/>). The certificate is open to Special students and undergraduate students regardless of the college of enrollment.

## REQUIREMENTS

## REQUIREMENTS FOR THE CERTIFICATE

15 total credits are required, as follows:

Code	Title	Credits
<b>Introduction to American Indian Studies:</b>		
AMER IND 100	Introduction to American Indian Studies	3
<b>Complete four courses from at least two of the following areas:</b>		<b>12</b>
<i>History</i>		
AMER IND/ HISTORY 190	Introduction to American Indian History	
<i>Literature and Media</i>		
AMER IND/ ENGL 172	Literatures of Native America	

AMER IND/ ENGL 246	Literature by American Indian Women
AMER IND 325	American Indians in Film
AMER IND/ ANTHRO/ FOLKLORE 431	American Indian Folklore
<i>Anthropology</i>	
AMER IND/ ANTHRO 314	Indians of North America
AMER IND 320	Native Peoples of the Southwest
AMER IND/ ANTHRO 354	Archaeology of Wisconsin
<i>Language</i>	
AMER IND 301	First Semester Ojibwe
AMER IND 302	Second Semester Ojibwe
AMER IND 303	Beginner Level Indigenous Language
AMER IND 304	Beginner Level Indigenous Language II
AMER IND 308	Beginner Level Hoocak/Ho-Chunk Language
AMER IND/ LINGUIS 371	Survey of North American Indian Languages
AMER IND 401	Ojibwe Language III
AMER IND 402	Ojibwe Language IV
AMER IND 403	Intermediate Level Indigenous Language
AMER IND 404	Intermediate Level Indigenous Language II
<i>American Indian Social and Cultural Issues</i>	
AMER IND/ AFROAMER/ ASIAN AM/ CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies
AMER IND 250	Indians of Wisconsin
AMER IND/ CSCS 330	American Indian Communities: Sovereignty, Struggles, and Successes
AMER IND/ ANTHRO/ FOLKLORE/ GEN&WS 437	American Indian Women
AMER IND 450	Issues in American Indian Studies
AMER IND/ C&E SOC/ SOC 578	Poverty and Place
AMER IND 425	Special Topics in American Indian Studies
AMER IND/ SOC WORK 636	Social Work in American Indian Communities: The Indian Child Welfare Act
<i>Environment</i>	
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment

AMER IND/ ENVIR ST 341	Indigenous Environmental Communicators
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges
AMER IND/ LSC 444	Native American Environmental Issues and the Media
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany

**Total Credits****15**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses.
- 6 credits may be taken as pass/fail. All other credits must be taken for a letter grade.
- At least 8 certificate credits must be completed in residence.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. Apply knowledge and methods of inquiry characteristic of this interdisciplinary field.
2. Apply knowledge of historical precedents to contemporary issues.
3. Demonstrate knowledge of the creativity and ethos contained within the diverse ways of knowing (Indigenous Knowledge Systems) among American Indian nations and communities.
4. Apply knowledge of the effects (ongoing) of oppression and racism that American Indians experience.
5. Demonstrate knowledge of the contributions of American Indian value-belief systems and practical knowledge across all fields of human endeavor.

## ADVISING AND CAREERS

Students are required to declare the American Indian and Indigenous Studies (AIIIS) certificate. For academic advising regarding the certificate, students should contact the AIIIS certificate advisor to obtain more details about the certificate program and general academic advising. Contact Denise Wiyaka at [denise.wiyaka@wisc.edu](mailto:denise.wiyaka@wisc.edu) or request information by sending an email to [ais@lets.wisc.edu](mailto:ais@lets.wisc.edu).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps

students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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## PEOPLE

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## ANTHROPOLOGY

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a history of the human species, anthropology studies all human biological and behavioral variation from the earliest fossil records to the present; it includes the study of nonhuman primates as well. As a social science, anthropology aims at uncovering the patterns of past and present societies. As one

of the humanities, anthropology seeks to understand the ways cultural meaning and political power have shaped human experience.

At the University of Wisconsin–Madison, anthropology consists of three subfields: archaeology—the investigation and analysis of the remains from past cultures, uncovered through excavation; biological anthropology—the study of human evolution and the roots of the biological and genetic diversity found among contemporary peoples; and sociocultural anthropology—the comparative study of society, politics, economy, and culture, whether in historical times or in our contemporary moment. UW–Madison also offers some classes in anthropological linguistics—the analysis of language and its place in social life. Comparative and empirical work—and fieldwork in particular—are the hallmarks of anthropology on this campus.

Thus, anthropology at UW–Madison is characterized by a comparative point of view, a focus on humans and societies in all their variation and similarity, and an effort to reveal and understand the complex but organized diversity that has shaped the human condition, past and present.

## DEGREES/MAJORS/CERTIFICATES

- Anthropology, B.A. (p. 407)
- Anthropology, B.S. (p. 412)
- Archaeology, Certificate (p. 417)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine/>)  
Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry/>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome/>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah/>)  
Archaeology, Mesoamerica, Teotihuacan
- Falina Enriquez (<http://www.anthropology.wisc.edu/staff/enriquez-falina/>)  
Cultural anthropology, ethnomusicology, Brazil
- John Hawks (<http://www.anthropology.wisc.edu/staff/hawks-john/>)  
Biological anthropology, paleoanthropology, anthropological genomics, South Africa
- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark/>)  
Archaeology, South Asia, Harappa, craft production
- Nam C. Kim (<http://www.anthropology.wisc.edu/staff/kim-nam-c/>)  
Archaeology, Southeast Asia, Vietnam, complex societies, warfare
- Veronika Kusumaryati (<https://www.anthropology.wisc.edu/staff/kusumaryati-veronika/>)

Cultural Anthropology, Southeast Asia, visual anthropology

- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria/>)  
Cultural anthropology, medical anthropology, Oceania
- Emiko Ohnuki-Tierney (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko/>)  
Cultural anthropology, East Asia, Japan
- Travis Pickering (<http://www.anthropology.wisc.edu/staff/pickering-travis/>)  
Biological anthropology, taphonomy, South Africa
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel/>)  
Archaeology, historical ecology, Eastern North America, complex societies
- Amy Stambach (<http://www.anthropology.wisc.edu/staff/stambach-amy/>)  
Cultural anthropology, East Africa
- Karen Strier (<http://www.anthropology.wisc.edu/staff/strier-karen/>)  
Biological anthropology, primatology, behavioral ecology, Brazil
- Claire Wendland (<http://www.anthropology.wisc.edu/staff/wendland-claire/>)  
Cultural anthropology, medical anthropology, Africa, Malawi

### ACADEMIC STAFF

- Elizabeth Leith (<https://www.anthropology.wisc.edu/staff/leith-elizabeth/>), Senior Academic Curator  
Museum anthropology, protohistoric, European trade, historical archaeology

### AFFILIATE FACULTY

- William Aylward (<https://canes.wisc.edu/staff/william-aylward/>)
- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327/>)
- Nicholas Cahill (<https://arthistory.wisc.edu/staff/nicholas-d-cahill/>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins/>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml/>)
- Elizabeth Mertz (<http://law.wisc.edu/profiles/eemertz@wisc.edu>)
- Ellen Rafferty

### ADMINISTRATIVE STAFF

- Kristine Schultz, Administrator  
[kristine.schultz@wisc.edu](mailto:kristine.schultz@wisc.edu)  
608-262-2868
- Kyle Speth, Accountant  
[speth2@wisc.edu](mailto:speth2@wisc.edu)  
608-262-2867
- Erika Petrie, Graduate Program Manager  
[anthrograd@mailplus.wisc.edu](mailto:anthrograd@mailplus.wisc.edu)  
608-262-2869
- Noah Ramthun, Undergraduate Coordinator

anthroinfo@mailplus.wisc.edu (cpfefferkorn@wisc.edu)  
608-262-2866

## EMERITUS FACULTY

- Kenneth George  
Cultural anthropology, Southeast Asia, Indonesia
- Sharon Hutchinson  
sehutchi@wisc.edu  
Cultural anthropology, Africa
- Anatoly Khazanov (<http://www.anthropology.wisc.edu/staff/khazanov-anatoly/>)  
Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- Kirin Narayan  
Cultural anthropology
- Larry Nesper  
Cultural Anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

## ANTHROPOLOGY, B.A.

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a history of the human species, anthropology studies all human biological and behavioral variation from the earliest fossil records to the present; it includes the study of nonhuman primates as well. As a social science, anthropology aims at uncovering the patterns of past and present societies. As one of the humanities, anthropology seeks to understand the ways cultural meaning and political power have shaped human experience.

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Thus, anthropology at UW–Madison is characterized by a comparative point of view, a focus on humans and societies in all their variation and similarity, and an effort to reveal and understand the complex but organized diversity that has shaped the human condition, past and present.

## HOW TO GET IN

Students wishing to declare an anthropology major should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- L&S Breadth
- 12 credits of Humanities, which must include 6 credits of literature; and
  - 12 credits of Social Science; and
  - 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
<i>Complete two:</i>		6
ANTHRO 212	Principles of Archaeology	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
ANTHRO 490	Undergraduate Seminar	3
ANTHRO electives		15
<b>Total Credits</b>		<b>30</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ANTHRO and major courses
- 2.000 GPA in 15 upper-level major credits in residence<sup>1</sup>
- 15 credits in ANTHRO, taken on campus

1

ANTHRO 300 and above are upper-level, with the exception of Quechua and Yucatec Maya language courses (ANTHRO/LACIS 361, ANTHRO/LACIS 362, ANTHRO/LACIS 363, ANTHRO/LACIS 364, ANTHRO/LACIS 376, ANTHRO/LACIS 377).

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Anthropology major advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the Anthropology major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all ANTHRO and major courses
- Complete the following coursework:

Code	Title	Credits
<i>Biological Anthropology (complete one):</i>		3
ANTHRO 105	Principles of Biological Anthropology	
ANTHRO 302	Hominoid Evolution	
ANTHRO 303	Human Skeletal Anatomy	
ANTHRO 304	Heredity, Environment and Human Populations	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
ANTHRO 411	The Evolution of the Genus, Homo	
ANTHRO 420	Introduction to Primatological Research	
ANTHRO 454	Study Abroad: Topics in Biological Anthropology	
ANTHRO 458	Primate Behavioral Ecology	
ANTHRO 601	Proseminar in Biological Anthropology	
ANTHRO 603	Seminar in Evolutionary Theory	
ANTHRO 605	Seminar-Current Problems in Paleoanthropology	
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	
ANTHRO 668	Primate Conservation	
<i>Cultural Anthropology (complete one):</i>		3
ANTHRO 104	Cultural Anthropology and Human Diversity	
ANTHRO/ FOLKLORE/ INTL ST/ LINGUIS 211	Global Language Issues	
ANTHRO/ MED HIST 231	Introduction to Social Medicine	
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	
ANTHRO/ AFROAMER/ C&E SOC/ GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	



ANTHRO 265	Introduction to Culture and Health	ANTHRO/ FOLKLORE 520	Ethnic Representations in Wisconsin	
ANTHRO/ AFRICAN/ AFROAMER/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	ANTHRO 545	Psychological Anthropology	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	ANTHRO/ ED POL 570	Anthropology and Education	
ANTHRO/ LINGUIS 301	Introduction to Linguistics: Descriptive and Theoretical	<i>Archaeological Anthropology (complete one):</i>		3
ANTHRO 307	Urban Anthropology	ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO/ AMER IND 314	Indians of North America	ANTHRO 212	Principles of Archaeology	
ANTHRO 340	Music, Race, And Culture in Brazil	ANTHRO/ ART HIST/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture	
ANTHRO/ RELIG ST 343	Anthropology of Religion	ANTHRO 310	Topics in Archaeology	
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	ANTHRO 321	The Emergence of Human Culture	
ANTHRO 348	Economic Anthropology	ANTHRO 322	The Origins of Civilization	
ANTHRO 357	Introduction to the Anthropology of Japan	ANTHRO 333	Prehistory of Africa	
ANTHRO/ LACIS 361	Elementary Quechua	ANTHRO 337	Lithics and Archaeology	
ANTHRO/ LACIS 362	Elementary Quechua	ANTHRO 352	Ancient Technology and Invention	
ANTHRO/ LACIS 363	Intermediate Quechua	ANTHRO/ AMER IND 354	Archaeology of Wisconsin	
ANTHRO/ LACIS 364	Advanced Quechua	ANTHRO 370	Field Course in Archaeology	
ANTHRO 365	Medical Anthropology	ANTHRO 391	Bones for the Archaeologist	
ANTHRO/ LACIS 376	First Semester Yucatec Maya	ANTHRO 453	Study Abroad: Topics in Archaeology	
ANTHRO/ LACIS 377	Second Semester Yucatec Maya	ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany	
ANTHRO 424	Historical Anthropology	ANTHRO 696	Archaeological Methods of Curation	
ANTHRO/ AMER IND/ FOLKLORE 431	American Indian Folklore	ANTHRO 490	Undergraduate Seminar	3
ANTHRO/ AMER IND/ FOLKLORE/ GEN&WS 437	American Indian Women	<i>or a seminar chosen from:</i>		
ANTHRO/ GEN&WS 443	Anthropology by Women	ANTHRO 601	Proseminar in Biological Anthropology	
ANTHRO 448	Anthropology of Law	ANTHRO 603	Seminar in Evolutionary Theory	
ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	ANTHRO 605	Seminar-Current Problems in Paleoanthropology	
ANTHRO 456	Symbolic Anthropology	ANTHRO 606	Ethnicity, Nations, and Nationalism	
ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	ANTHRO 690	Problems in Anthropology	
ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany	ANTHRO 681 & ANTHRO 682	Senior Honors Thesis and Senior Honors Thesis	6
ANTHRO 477	Anthropology, Environment, and Development	<b>Total Credits</b>		<b>18</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire specialized training in anthropological research.
2. Obtain comparative global knowledge of human diversity, material culture, culture history, and the evolution of people's relationships with the physical, cultural, and natural world.
3. Gain an awareness of ethnographic, archaeological and bio# anthropological ethics practice and research.
4. Distinguish between empirical and speculative narratives and claims about human diversity past and present.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
ANTHRO 100-200 level course	3	ANTHRO 100-200 level course	3
Science Breadth	3	Ethnic Studies course in ANTHRO	3
Communication A	3	Literature Breadth	3
Quantitative Reasoning A	3	Physical Science Breadth	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
ANTHRO 200-300 level course	3	Communication B	3-4
Quantitative Reasoning B	4	ANTHRO 200-300 level course	3
Literature Breadth	3	Science Breadth	3

Elective	4 I/A COMP SCI, MATH, or STAT (if B.S.)	3
INTER-LS 210	1 Elective	3
	<b>15</b>	<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major		ANTHRO 300-600 level elective	3
ANTHRO 300-600 level elective	3	ANTHRO 300-600 level elective	3
Humanities Breadth	3	Humanities Breadth	3
I/A COMP SCI, MATH, or STAT (if B.S.)	3	Electives	5
Elective	4		
	<b>13</b>		<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
ANTHRO 490	3	ANTHRO 300-600 level elective	3
Electives	12	Electives	12
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students interested in anthropology and declaring the major should contact the department directly by calling the general number (608-262-2866) or stopping by 5240 William H. Sewell Social Science Building for individual advising.

### CAREER EXPLORATION

Anthropology encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine/>)  
Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry/>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome/>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah/>)  
Archaeology, Mesoamerica, Teotihuacan
- Falina Enriquez (<http://www.anthropology.wisc.edu/staff/enriquez-falina/>)  
Cultural anthropology, ethnomusicology, Brazil
- John Hawks (<http://www.anthropology.wisc.edu/staff/hawks-john/>)  
Biological anthropology, paleoanthropology, anthropological genomics, South Africa
- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark/>)  
Archaeology, South Asia, Harappa, craft production
- Nam C. Kim (<http://www.anthropology.wisc.edu/staff/kim-nam-c/>)  
Archaeology, Southeast Asia, Vietnam, complex societies, warfare
- Veronika Kusumaryati (<https://www.anthropology.wisc.edu/staff/kusumaryati-veronika/>)  
Cultural Anthropology, Southeast Asia, visual anthropology
- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria/>)  
Cultural anthropology, medical anthropology, Oceania
- Emiko Ohnuki-Tierney (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko/>)  
Cultural anthropology, East Asia, Japan

- Travis Pickering (<http://www.anthropology.wisc.edu/staff/pickering-travis/>)  
Biological anthropology, taphonomy, South Africa
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel/>)  
Archaeology, historical ecology, Eastern North America, complex societies
- Amy Stambach (<http://www.anthropology.wisc.edu/staff/stambach-amy/>)  
Cultural anthropology, East Africa
- Karen Strier (<http://www.anthropology.wisc.edu/staff/strier-karen/>)  
Biological anthropology, primatology, behavioral ecology, Brazil
- Claire Wendland (<http://www.anthropology.wisc.edu/staff/wendland-claire/>)  
Cultural anthropology, medical anthropology, Africa, Malawi

### ACADEMIC STAFF

- Elizabeth Leith (<https://www.anthropology.wisc.edu/staff/leith-elizabeth/>), Senior Academic Curator  
  
Museum anthropology, protohistoric, European trade, historical archaeology

### AFFILIATE FACULTY

- William Aylward (<https://canes.wisc.edu/staff/william-aylward/>)
- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327/>)
- Nicholas Cahill (<https://arthistory.wisc.edu/staff/nicholas-d-cahill/>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins/>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml/>)
- Elizabeth Mertz (<http://law.wisc.edu/profiles/eemertz@wisc.edu>)
- Ellen Rafferty

### ADMINISTRATIVE STAFF

- Kristine Schultz, Administrator  
[kristine.schultz@wisc.edu](mailto:kristine.schultz@wisc.edu)  
608-262-2868
- Kyle Speth, Accountant  
[speth2@wisc.edu](mailto:speth2@wisc.edu)  
608-262-2867
- Erika Petrie, Graduate Program Manager  
[anthrograd@mailplus.wisc.edu](mailto:anthrograd@mailplus.wisc.edu)  
608-262-2869
- Noah Ramthun, Undergraduate Coordinator  
[anthroinfo@mailplus.wisc.edu](mailto:anthroinfo@mailplus.wisc.edu) ([cpfefferkorn@wisc.edu](mailto:cpfefferkorn@wisc.edu))  
608-262-2866

### EMERITUS FACULTY

- Kenneth George  
Cultural anthropology, Southeast Asia, Indonesia
- Sharon Hutchinson

sehutchi@wisc.edu  
Cultural anthropology, Africa

- Anatoly Khazanov (<http://www.anthropology.wisc.edu/staff/khazanov-anatoly/>)  
Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- Kirin Narayan  
Cultural anthropology
- Larry Nesper  
Cultural Anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

## ANTHROPOLOGY, B.S.

Anthropology is the comparative study of human diversity through time and across the world. Its scope spans the humanities, the social sciences, and the biological, physical, and evolutionary sciences. As a history of the human species, anthropology studies all human biological and behavioral variation from the earliest fossil records to the present; it includes the study of nonhuman primates as well. As a social science, anthropology aims at uncovering the patterns of past and present societies. As one of the humanities, anthropology seeks to understand the ways cultural meaning and political power have shaped human experience.

At the University of Wisconsin–Madison, anthropology consists of three subfields: archaeology—the investigation and analysis of the remains from past cultures, uncovered through excavation; biological anthropology—the study of human evolution and the roots of the biological and genetic diversity found among contemporary peoples; and sociocultural anthropology—the comparative study of society, politics, economy, and culture, whether in historical times or in our contemporary moment. UW–Madison also offers some classes in anthropological linguistics—the analysis of language and its place in social life. Comparative and empirical work—and fieldwork in particular—are the hallmarks of anthropology on this campus.

Thus, anthropology at UW–Madison is characterized by a comparative point of view, a focus on humans and societies in all their variation and similarity, and an effort to reveal and understand the complex but organized diversity that has shaped the human condition, past and present.

## HOW TO GET IN

Students wishing to declare an anthropology major should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

- |                                     |   |
|-------------------------------------|---|
| Mathematics                         | Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.   |
| Foreign Language                    | Complete the third unit of a foreign language.  |
| L&S Breadth                         | Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul> |
| Liberal Arts and Science Coursework | Complete at least 108 credits.  |

Depth of Intermediate/ Advanced Coursework Complete at least 60 credits at the Intermediate or Advanced level.

Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
<i>Complete two:</i>		6
ANTHRO 212	Principles of Archaeology	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
ANTHRO 490	Undergraduate Seminar	3
ANTHRO electives		15
<b>Total Credits</b>		<b>30</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ANTHRO and major courses
- 2.000 GPA in 15 upper-level major credits in residence<sup>1</sup>
- 15 credits in ANTHRO, taken on campus

<sup>1</sup>

ANTHRO 300 and above are upper-level, with the exception of Quechua and Yucatec Maya language courses (ANTHRO/LACIS 361, ANTHRO/LACIS 362, ANTHRO/LACIS 363, ANTHRO/LACIS 364, ANTHRO/LACIS 376, ANTHRO/LACIS 377).

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Anthropology major advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the Anthropology major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all ANTHRO and major courses
- Complete the following coursework:

Code	Title	Credits
<i>Biological Anthropology (complete one):</i>		3
ANTHRO 105	Principles of Biological Anthropology	
ANTHRO 302	Hominoid Evolution	
ANTHRO 303	Human Skeletal Anatomy	
ANTHRO 304	Heredity, Environment and Human Populations	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
ANTHRO 411	The Evolution of the Genus, Homo	
ANTHRO 420	Introduction to Primatological Research	
ANTHRO 454	Study Abroad: Topics in Biological Anthropology	
ANTHRO 458	Primate Behavioral Ecology	
ANTHRO 601	Proseminar in Biological Anthropology	
ANTHRO 603	Seminar in Evolutionary Theory	
ANTHRO 605	Seminar-Current Problems in Paleoanthropology	
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	
ANTHRO 668	Primate Conservation	
<i>Cultural Anthropology (complete one):</i>		3
ANTHRO 104	Cultural Anthropology and Human Diversity	
ANTHRO/ FOLKLORE/ INTL ST/ LINGUIS 211	Global Language Issues	
ANTHRO/ MED HIST 231	Introduction to Social Medicine	
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	
ANTHRO/ AFROAMER/ C&E SOC/ GEOG/ HISTORY/ LACIS/ POLI SCI/ SOC/ SPANISH 260	Latin America: An Introduction	
ANTHRO 265	Introduction to Culture and Health	
ANTHRO/ AFRICAN/ AFROAMER/ GEOG/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	

ANTHRO/ LINGUIS 301	Introduction to Linguistics: Descriptive and Theoretical	
ANTHRO 307	Urban Anthropology	
ANTHRO/ AMER IND 314	Indians of North America	
ANTHRO 340	Music, Race, And Culture in Brazil	
ANTHRO/ RELIG ST 343	Anthropology of Religion	
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	
ANTHRO 348	Economic Anthropology	
ANTHRO 357	Introduction to the Anthropology of Japan	
ANTHRO/ LACIS 361	Elementary Quechua	
ANTHRO/ LACIS 362	Elementary Quechua	
ANTHRO/ LACIS 363	Intermediate Quechua	
ANTHRO/ LACIS 364	Advanced Quechua	
ANTHRO 365	Medical Anthropology	
ANTHRO/ LACIS 376	First Semester Yucatec Maya	
ANTHRO/ LACIS 377	Second Semester Yucatec Maya	
ANTHRO 424	Historical Anthropology	
ANTHRO/ AMER IND/ FOLKLORE 431	American Indian Folklore	
ANTHRO/ AMER IND/ FOLKLORE/ GEN&WS 437	American Indian Women	
ANTHRO/ GEN&WS 443	Anthropology by Women	
ANTHRO 448	Anthropology of Law	
ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	
ANTHRO 456	Symbolic Anthropology	
ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	
ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany	
ANTHRO 477	Anthropology, Environment, and Development	
ANTHRO/ FOLKLORE 520	Ethnic Representations in Wisconsin	
ANTHRO 545	Psychological Anthropology	
ANTHRO/ ED POL 570	Anthropology and Education	
<i>Archaeological Anthropology (complete one):</i>		3
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 212	Principles of Archaeology	
ANTHRO/ ART HIST/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture	
ANTHRO 310	Topics in Archaeology	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
ANTHRO 333	Prehistory of Africa	
ANTHRO 337	Lithics and Archaeology	
ANTHRO 352	Ancient Technology and Invention	
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	
ANTHRO 370	Field Course in Archaeology	
ANTHRO 391	Bones for the Archaeologist	
ANTHRO 453	Study Abroad: Topics in Archaeology	
ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany	
ANTHRO 696	Archaeological Methods of Curation	
ANTHRO 490	Undergraduate Seminar	3
<i>or a seminar chosen from:</i>		
ANTHRO 601	Proseminar in Biological Anthropology	
ANTHRO 603	Seminar in Evolutionary Theory	
ANTHRO 605	Seminar-Current Problems in Paleoanthropology	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ANTHRO 690	Problems in Anthropology	
ANTHRO 681 & ANTHRO 682	Senior Honors Thesis and Senior Honors Thesis	6
<b>Total Credits</b>		<b>18</b>

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire specialized training in anthropological research.
2. Obtain comparative global knowledge of human diversity, material culture, culture history, and the evolution of people's relationships with the physical, cultural, and natural world.
3. Gain an awareness of ethnographic, archaeological and bio# anthropological ethics practice and research.
4. Distinguish between empirical and speculative narratives and claims about human diversity past and present.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
ANTHRO 100-200 level course	3	ANTHRO 100-200 level course	3
Science Breadth	3	Ethnic Studies course in ANTHRO	3
Communication A	3	Literature Breadth	3
Quantitative Reasoning A	3	Physical Science Breadth	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
ANTHRO 200-300 level course	3	Communication B	3-4
Quantitative Reasoning B	4	ANTHRO 200-300 level course	3
Literature Breadth	3	Science Breadth	3
Elective	4	I/A COMP SCI, MATH, or STAT (if B.S.)	3
INTER-LS 210	1	Elective	3
	<b>15</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major		ANTHRO 300-600 level elective	3
ANTHRO 300-600 level elective	3	ANTHRO 300-600 level elective	3
Humanities Breadth	3	Humanities Breadth	3

I/A COMP SCI, MATH, or STAT (if B.S.)	3 Electives	5
Elective	4	
	<b>13</b>	<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
ANTHRO 490		3 ANTHRO 300-600 level elective	3
Electives	12	Electives	12
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students interested in anthropology and declaring the major should contact the department directly by calling the general number (608-262-2866) or stopping by 5240 William H. Sewell Social Science Building for individual advising.

### CAREER EXPLORATION

Anthropology encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

- Katherine Bowie (<http://www.anthropology.wisc.edu/staff/bowie-katherine/>)  
Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry/>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome/>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah/>)  
Archaeology, Mesoamerica, Teotihuacan
- Falina Enriquez (<http://www.anthropology.wisc.edu/staff/enriquez-falina/>)  
Cultural anthropology, ethnomusicology, Brazil
- John Hawks (<http://www.anthropology.wisc.edu/staff/hawks-john/>)  
Biological anthropology, paleoanthropology, anthropological genomics, South Africa
- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark/>)  
Archaeology, South Asia, Harappa, craft production
- Nam C. Kim (<http://www.anthropology.wisc.edu/staff/kim-nam-c/>)  
Archaeology, Southeast Asia, Vietnam, complex societies, warfare
- Veronika Kusumaryati (<https://www.anthropology.wisc.edu/staff/kusumaryati-veronika/>)  
Cultural Anthropology, Southeast Asia, visual anthropology
- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria/>)  
Cultural anthropology, medical anthropology, Oceania
- Emiko Ohnuki-Tierney (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko/>)  
Cultural anthropology, East Asia, Japan
- Travis Pickering (<http://www.anthropology.wisc.edu/staff/pickering-travis/>)  
Biological anthropology, taphonomy, South Africa
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel/>)  
Archaeology, historical ecology, Eastern North America, complex societies
- Amy Stambach (<http://www.anthropology.wisc.edu/staff/stambach-amy/>)  
Cultural anthropology, East Africa

- Karen Strier (<http://www.anthropology.wisc.edu/staff/strier-karen/>)  
Biological anthropology, primatology, behavioral ecology, Brazil
- Claire Wendland (<http://www.anthropology.wisc.edu/staff/wendland-claire/>)  
Cultural anthropology, medical anthropology, Africa, Malawi

### ACADEMIC STAFF

- Elizabeth Leith (<https://www.anthropology.wisc.edu/staff/leith-elizabeth/>), Senior Academic Curator  
Museum anthropology, protohistoric, European trade, historical archaeology

### AFFILIATE FACULTY

- William Aylward (<https://canes.wisc.edu/staff/william-aylward/>)
- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327/>)
- Nicholas Cahill (<https://arthistory.wisc.edu/staff/nicholas-d-cahill/>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins/>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml/>)
- Elizabeth Mertz (<http://law.wisc.edu/profiles/eemertz@wisc.edu>)
- Ellen Rafferty

### ADMINISTRATIVE STAFF

- Kristine Schultz, Administrator  
[kristine.schultz@wisc.edu](mailto:kristine.schultz@wisc.edu)  
608-262-2868
- Kyle Speth, Accountant  
[speth2@wisc.edu](mailto:speth2@wisc.edu)  
608-262-2867
- Erika Petrie, Graduate Program Manager  
[anthrograd@mailplus.wisc.edu](mailto:anthrograd@mailplus.wisc.edu)  
608-262-2869
- Noah Ramthun, Undergraduate Coordinator  
[anthroinfo@mailplus.wisc.edu](mailto:anthroinfo@mailplus.wisc.edu) ([cpfefferkorn@wisc.edu](mailto:cpfefferkorn@wisc.edu))  
608-262-2866

### EMERITUS FACULTY

- Kenneth George  
Cultural anthropology, Southeast Asia, Indonesia
- Sharon Hutchinson  
[sehutchi@wisc.edu](mailto:sehutchi@wisc.edu)  
Cultural anthropology, Africa
- Anatoly Khazanov (<http://www.anthropology.wisc.edu/staff/khazanov-anatoly/>)  
Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- Kirin Narayan  
Cultural anthropology
- Larry Nesper



## Cultural Anthropology

- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

## ARCHAEOLOGY, CERTIFICATE

The archaeology certificate is designed to help students to develop the knowledge and practical skills needed to analyze archaeological materials and to participate in archaeological field research. Students who complete the certificate, along with a B.A. or B.S. degree from UW-Madison, improve their competitiveness in graduate school applications and are qualified for entry-level employment opportunities in archaeology. In addition to providing a strong intellectual foundation in archaeology and hands-on experience in fieldwork, the certificate provides an interdisciplinary link to courses in three or more departments, exposing students to diverse approaches to the study of our global human heritage.

Ancient history is a puzzle made up of innumerable fragments—pieces of bone, pottery, stone, and metal; remnants of architecture and monuments; residues of food; and traces of other things. Archaeology is the field of study that provides the tools to discover these fragments and piece them together to reconstruct a picture of the ancient world and to illuminate the stories of past peoples. An accurate understanding of the past is critical for developing a better present and future.

Through their participation in the archaeology certificate program, students gain an appreciation of the diversity of human societies and a fuller understanding of the cultural processes that have resulted in the way that we live today. Students explore the origins of subsistence strategies, trade, technology, belief systems, and conflict that are relevant to understanding the human condition in our modern world.

For further information about the archaeology certificate, including a list of core faculty, please see the Department of Anthropology website (<https://www.anthropology.wisc.edu>).

### HOW TO GET IN

To declare an archaeology certificate, should contact or visit the Department of Anthropology.

### REQUIREMENTS

#### 7 COURSES AND 21 CREDITS <sup>1</sup>

Credits must be distributed in at least three SUBJECTs, and must meet these requirements:

##### Introductory course

Code	Title	Credits
<b>Complete one:</b>		
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 105	Principles of Biological Anthropology	

ANTHRO 212	Principles of Archaeology	
<b>Total Credits</b>		<b>3</b>

##### Area courses

Code	Title	Credits
<b>Complete 6 credits from:</b>		
ANTHRO 310	Topics in Archaeology	
ANTHRO 321	The Emergence of Human Culture	
ANTHRO 322	The Origins of Civilization	
ANTHRO 333	Prehistory of Africa	
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology	
CLASSICS 320	The Greeks	
CLASSICS 322	The Romans	
HISTORY 303	A History of Greek Civilization	
HISTORY 307	A History of Rome	
HISTORY 377		

**Total Credits** **6**

##### Methods

Code	Title	Credits
<b>Complete 6 credits from:</b>		
ANTHRO 302	Hominoid Evolution	
ANTHRO 303	Human Skeletal Anatomy	
ANTHRO 352	Ancient Technology and Invention	
ANTHRO 391	Bones for the Archaeologist	
ANTHRO 696	Archaeological Methods of Curation	
BOTANY 240	Plants and Humans	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany	
CLASSICS 430	Topics in Classical Archaeology	
ENVIR ST/ ATM OCN/ GEOG/ GEOSCI 335	Climatic Environments of the Past	
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems	

ENVIR ST/ CIV ENGR/G L E/ GEOSCI 444	Practical Applications of GPS Surveying
GEOG/ GEOSCI 320	Geomorphology
GEOG 329	Landforms and Landscapes of North America
GEOG 360	Quantitative Methods in Geographical Analysis
GEOG 370	Introduction to Cartography
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change
GEOSCI 202	Introduction to Geologic Structures
GEOSCI/ GEOG 320	Geomorphology
GEOSCI/ GEOG 326	Landforms-Topics and Regions
GEOSCI/ GEOG 420	Glacial and Pleistocene Geology
GEOSCI 430	Sedimentology and Stratigraphy
GEOSCI/ CIV ENGR/ ENVIR ST/ G L E 444	Practical Applications of GPS Surveying
GEOSCI/ G L E 594	Introduction to Applied Geophysics
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology

**Total Credits** **6**

#### Field course

Code	Title	Credits
ANTHRO 370	Field Course in Archaeology	3-6

**Total Credits** **3-6**

#### Capstone

Code	Title	Credits
<b>Choose from:</b>		
ANTHRO 352	Ancient Technology and Invention <sup>2</sup>	3-4
ANTHRO 490	Undergraduate Seminar <sup>3</sup>	

**Total Credits** **3-4**

1

Courses taken Pass/Fail do not count.

2

ANTHRO 352 can count either for a methods course **or** for the capstone course, but not both.

3

ANTHRO 490 is a Topics course. In order to meet the capstone requirement, it must be on an archaeology topic.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all certificate-approved courses

- At least 11 Certificate credits, taken in Residence

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATE

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW-Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. acquire specialized training in archaeological research, which may include: obtaining basic knowledge of and skills in observational methods and recording of information for a variety of lines of archaeological evidence, putting these abilities into practice in the classroom and outside of the classroom, developing research questions and the analytical skills necessary to address them, strengthening archaeological interpretations through critical thinking and reference to empirical evidence, gaining experience in considering a problem, synthesizing information from disparate sources, and evaluating contrasting arguments, being able to distinguish between empirical research and speculation, communicating archaeological findings through written and oral expression.
2. obtain comparative global knowledge of archaeology, material culture, and the evolution of people's relationships with the physical world.
3. become aware of the ethical practice of archaeology and heritage preservation.
4. synthesize information relevant to archaeological research across multiple disciplines.
5. gain an appreciation of cultural diversity through time and space.

## ADVISING AND CAREERS

Students wishing to receive advising for the archaeology certificate should go to the Department of Anthropology, 5240 William H. Sewell Social Science Building. The telephone number for the department is 608-262-2866.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps

students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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## PEOPLE

### FACULTY

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Cultural anthropology, Southeast Asia, Thailand
- Henry T. Bunn (<http://www.anthropology.wisc.edu/staff/bunn-henry/>)  
Archaeology, emergence of culture, behavioral ecology, East Africa
- Jerome Camal (<http://www.anthropology.wisc.edu/staff/camal-jerome/>)  
Cultural anthropology, ethnomusicology, Caribbean
- Sarah Clayton (<http://www.anthropology.wisc.edu/staff/clayton-sarah/>)  
Archaeology, Mesoamerica, Teotihuacan
- Falina Enriquez (<http://www.anthropology.wisc.edu/staff/enriquez-falina/>)  
Cultural anthropology, ethnomusicology, Brazil
- John Hawks (<http://www.anthropology.wisc.edu/staff/hawks-john/>)  
Biological anthropology, paleoanthropology, anthropological genomics, South Africa
- J. Mark Kenoyer (<http://www.anthropology.wisc.edu/staff/kenoyer-j-mark/>)  
Archaeology, South Asia, Harappa, craft production
- Nam C. Kim (<http://www.anthropology.wisc.edu/staff/kim-nam-c/>)

Archaeology, Southeast Asia, Vietnam, complex societies, warfare

- Veronika Kusumaryati (<https://www.anthropology.wisc.edu/staff/kusumaryati-veronika/>)  
Cultural Anthropology, Southeast Asia, visual anthropology
- Maria Lepowsky (<http://www.anthropology.wisc.edu/staff/lepowsky-maria/>)  
Cultural anthropology, medical anthropology, Oceania
- Emiko Ohnuki-Tierney (<http://www.anthropology.wisc.edu/staff/ohnuki-tierney-emiko/>)  
Cultural anthropology, East Asia, Japan
- Travis Pickering (<http://www.anthropology.wisc.edu/staff/pickering-travis/>)  
Biological anthropology, taphonomy, South Africa
- Sissel Schroeder (<http://www.anthropology.wisc.edu/staff/schroeder-sissel/>)  
Archaeology, historical ecology, Eastern North America, complex societies
- Amy Stambach (<http://www.anthropology.wisc.edu/staff/stambach-amy/>)  
Cultural anthropology, East Africa
- Karen Strier (<http://www.anthropology.wisc.edu/staff/strier-karen/>)  
Biological anthropology, primatology, behavioral ecology, Brazil
- Claire Wendland (<http://www.anthropology.wisc.edu/staff/wendland-claire/>)  
Cultural anthropology, medical anthropology, Africa, Malawi

### ACADEMIC STAFF

- Elizabeth Leith (<https://www.anthropology.wisc.edu/staff/leith-elizabeth/>), Senior Academic Curator  
Museum anthropology, protohistoric, European trade, historical archaeology

### AFFILIATE FACULTY

- William Aylward (<https://canes.wisc.edu/staff/william-aylward/>)
- Bruce Barrett (<http://www.fammed.wisc.edu/directory/327/>)
- Nicholas Cahill (<https://arthistory.wisc.edu/staff/nicholas-d-cahill/>)
- Jane Collins (<http://dces.wisc.edu/people/faculty/jane-collins/>)
- Linda Hogle (<http://medhist.wisc.edu/faculty/hogle/index.shtml/>)
- Elizabeth Mertz (<http://law.wisc.edu/profiles/eemertz@wisc.edu>)
- Ellen Rafferty

### ADMINISTRATIVE STAFF

- Kristine Schultz, Administrator  
kristine.schultz@wisc.edu  
608-262-2868
- Kyle Speth, Accountant  
speth2@wisc.edu  
608-262-2867
- Erika Petrie, Graduate Program Manager

anthrograd@mailplus.wisc.edu  
608-262-2869

- Noah Ramthun, Undergraduate Coordinator  
anthroinfo@mailplus.wisc.edu (cpfefferkorn@wisc.edu)  
608-262-2866

## EMERITUS FACULTY

- Kenneth George  
Cultural anthropology, Southeast Asia, Indonesia
- Sharon Hutchinson  
sehutchi@wisc.edu  
Cultural anthropology, Africa
- Anatoly Khazanov (<http://www.anthropology.wisc.edu/staff/khazanov-anatoly/>)  
Cultural anthropology
- Herbert Lewis  
Cultural anthropology, history of anthropology
- Kirin Narayan  
Cultural anthropology
- Larry Nesper  
Cultural Anthropology
- T. Douglas Price  
Archaeology, Archaeological chemistry, Europe
- Frank Salomon  
Cultural anthropology, South America

## ART HISTORY

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis, problem-solving, writing and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions, in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged.

## DEGREES/MAJORS/CERTIFICATES

- Art History, B.A. (p. 420)
- Art History, B.S. (p. 428)
- Art History, Certificate (p. 436)

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, De Ferrari, Marshall, Rosenblum (chair)

Associate Professors Li, Phillips-Court, Pruitt

Assistant Professors Nelson, Spaulding

Affiliate Professors Aylward, Clark, Kern, Moskowitz, Nadler, Wolf

Affiliate Associate Professor Abdu'Allah

Affiliate Assistant Professors Campbell, Carter

Affiliate UW-Milwaukee Associate Professors Benjamin, Sen

Affiliate UW-Milwaukee Assistant Professor Moon

## ART HISTORY, B.A.

### OVERVIEW

The art history major provides a foundation for answering key questions about what it means to be human as well as valuable skills for today's workplaces. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis, problem-solving, writing and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories.

### STUDY ABROAD

The department strongly encourages art history majors to participate in study abroad programs. Students gain firsthand experience of other cultures and languages and have the opportunity to study major artistic monuments. Credit for appropriate coursework can be applied toward the major after arrangements have been made with the study abroad program, or, in the case of non-UW study abroad programs, the Office of Admissions and Recruitment. For more information, see the Study Abroad website (<http://www.studyabroad.wisc.edu/>).

## HOW TO GET IN

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged. More detailed information can be found at Declaring the Art History Major (<https://arthistory.wisc.edu/undergraduate-program/#advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

- |             |  |
|-------------|--|
| Mathematics | Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework. |
|-------------|--|

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR FOREIGN LANGUAGE

Note: A unit is one year of high school work or one semester/term of college work.

- Complete the fourth unit of a foreign language; **or**
- Complete the third unit of a foreign language **and** the second unit of an additional foreign language.

### LEVEL REQUIREMENTS

Nine (9) courses in ART HIST as follows:

#### Intro-level ART HIST (two required)

Code	Title	Credits
ART HIST 102	Seeing Through Conspiracy Theories	
ART HIST 104	The Art of Diversity: Race and Representation in the Art and Visual Culture of the United States	
ART HIST 106	Have Brush, Will Travel: The Italian Renaissance from Florence to Rome	
ART HIST 107	The Body, Sex, & Health in Art	

ART HIST 130	Seeing Race: Anti-Racism and Visual Culture
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals
ART HIST 202	History of Western Art II: From Renaissance to Contemporary
ART HIST 203	Survey of Asian Art
ART HIST 205	Global Arts
ART HIST 210	A History of the World in 20 Buildings
ART HIST 227	The Ends of Modernism
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture
ART HIST/ ANTHRO/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture

**300-level ART HIST (three required)**

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST 303	Topics in Art History	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 335	Study Abroad in Ancient/Medieval Art	
ART HIST 336	Study Abroad in Renaissance/ Baroque/Northern Art	
ART HIST 337	Study Abroad in 18th-20th Century Art	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 341	Italian Baroque Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	

ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST 355	History of Photography
ART HIST 357	History of Wisconsin Architecture, 1800-present
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present
ART HIST 365	The Concept of Contemporary Art
ART HIST 372	Arts of Japan
ART HIST/ RELIG ST 373	Great Cities of Islam
ART HIST 375	Later Japanese Painting and Woodblock Prints
ART HIST/ ASIAN 379	Cities of Asia

**400-level ART HIST (two required)**

Code	Title	Credits
ART HIST 403	Topics in Art History	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST 411	Topics in Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST/ MEDIIEVAL 415	Topics in Medieval Art	
ART HIST 420	Topics in Italian Renaissance Art	
ART HIST 425	Race and Gender in Italian Early Modern Art	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 435	Study Abroad in Ancient/Medieval Art	
ART HIST 436	Study Abroad in Renaissance/ Baroque/Northern Art	
ART HIST 437	Study Abroad in 18th-20th Century Art	
ART HIST 438	Study Abroad in African/Asian Art	
ART HIST 440	Art and Power in the Arab World	
ART HIST 454	Art in Germany, 1900-1945	

ART HIST 457	History of American Vernacular Architecture and Landscapes
ART HIST 468	Frank Lloyd Wright
ART HIST 469	Interdisciplinary Studies in the Arts
ART HIST 475	Japanese Ceramics and Allied Arts
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan
ART HIST 479	Art and History in Africa
ART HIST 601	Introduction to Museum Studies I
ART HIST 602	Introduction to Museum Studies II
ART HIST 603	Curatorial Studies Colloquium

### 500-level ART HIST (one required)

Code	Title	Credits
ART HIST 500	Proseminar: Special Topics in Art History	
ART HIST 505	Proseminar in Ancient Art	
ART HIST 506	Curatorial Studies Exhibition Practice	
ART HIST 510	Proseminar in Islamic Art and Architecture	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 525	Proseminar in Italian Renaissance Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
ART HIST 563	Proseminar in Material Culture	
ART HIST 567	Proseminar in American Architecture	
ART HIST 569	Interdisciplinary Studies in the Arts	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
ART HIST 579	Proseminar in African Art	

### Electives to meet minimum nine courses required

Code	Title	Credits
ART HIST 100-699		

### CHRONOLOGICAL DISTRIBUTION

Of the nine required ART HIST courses, at least one course from each area:

#### Ancient to Medieval

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	

ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453
ART HIST 318	Romanesque and Gothic Art and Architecture
ART HIST 335	Study Abroad in Ancient/Medieval Art
ART HIST 372	Arts of Japan <sup>1</sup>
ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 413	Art and Architecture in the Age of the Caliphs
ART HIST/ MEDIIEVAL 415	Topics in Medieval Art
ART HIST 435	Study Abroad in Ancient/Medieval Art
ART HIST 440	Art and Power in the Arab World <sup>1</sup>
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan

#### Early Modern (Circa 1400–Circa 1800)

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 341	Italian Baroque Art	
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ RELIG ST 373	Great Cities of Islam	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 420	Topics in Italian Renaissance Art	

ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST 479	Art and History in Africa

### Modern (Circa 1800–Circa 1945)

Code	Title	Credits
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 337	Study Abroad in 18th–20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	History of Wisconsin Architecture, 1800–present	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620–1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607–present <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST/ASIAN 428	Visual Cultures of India	
ART HIST 437	Study Abroad in 18th–20th Century Art	
ART HIST 454	Art in Germany, 1900–1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>	
ART HIST 468	Frank Lloyd Wright	
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>	

### Contemporary (Post 1945)

Code	Title	Credits
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 337	Study Abroad in 18th–20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	

ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607–present <sup>1</sup>
ART HIST 365	The Concept of Contemporary Art
ART HIST 372	Arts of Japan <sup>1</sup>
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>
ART HIST 408	Topics in Twentieth-Century Art
ART HIST 409	Topics in Contemporary Art
ART HIST/ASIAN 428	Visual Cultures of India
ART HIST 437	Study Abroad in 18th–20th Century Art
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>
ART HIST 468	Frank Lloyd Wright
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST 479	Art and History in Africa

### GEOGRAPHIC DISTRIBUTION

Of the nine required ART HIST courses, at least one course from **three** of these **five** areas:

#### Cross-Cultural/Diaspora

Code	Title	Credits
ART HIST/AFROAMER 242	Introduction to Afro-American Art	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST/RELIG ST 373	Great Cities of Islam	
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	

#### Africa/Middle East

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST/RELIG ST 373	Great Cities of Islam	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 479	Art and History in Africa	



**Asia**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 372	Arts of Japan	
ART HIST/ RELIG ST 373	Great Cities of Islam	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 411	Topics in Asian Art	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	

**Europe**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 341	Italian Baroque Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	

ART HIST 407 Topics in Nineteenth Century Art

ART HIST 408 Topics in Twentieth-Century Art

ART HIST 409 Topics in Contemporary Art

ART HIST/  
MEDIEVAL 415 Topics in Medieval Art

ART HIST 420 Topics in Italian Renaissance Art

ART HIST 425 Race and Gender in Italian Early Modern Art

ART HIST 454 Art in Germany, 1900-1945

**The Americas**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	History of Wisconsin Architecture, 1800-present	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
ART HIST 468	Frank Lloyd Wright	

**THEORY AND METHOD DISTRIBUTION**

Of the nine required ART HIST courses, at least one course from:

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 355	History of Photography	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 601	Introduction to Museum Studies I	
ART HIST 602	Introduction to Museum Studies II	
ART HIST 603	Curatorial Studies Colloquium	
ART HIST/ ASIAN 621	Mapping, Making, and Representing Colonial Spaces	
ART HIST/ HISTORY/ JOURN/L IS 650	History of Books and Print Culture in Europe and North America	

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in ART HIST and major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits in ART HIST taken on the UW–Madison campus
- AP Art History credits may count toward the nine (9) course minimum for the Art History major but not toward the 200-level requirement

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Art History undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all ART HIST courses
- Complete a two-semester Senior Honors Thesis in ART HIST 681 and ART HIST 682, for a total of 6 credits.
- Present an oral report on work in an undergraduate Honors colloquium during the senior year

## FOOTNOTES

1

Course is accepted in one or more Chronological or Geographical areas, but will only apply to one of those areas. Students with questions should consult the academic advisor for this program.

2

ART HIST courses numbered 300–699 are considered upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Skill in visual analysis of single images and comparative analysis of multiple images and objects, evaluating a range of elements such as form, color, light, proportion, viewpoint, material, and narrative structure.
2. Proficiency in interpreting images and objects in ways that take into account the historical contexts in which they were produced and received.
3. Consolidation of knowledge across a range of time and geography to reach an understanding of the ways in which art and its meaning are rooted in culture.
4. Ability to locate and enlist research resources in both print and digital form and assess the strengths and weaknesses of various types of resources.
5. Knowledge and skills to interpret images and objects in ways that consider a variety of theoretical perspectives.
6. Ability to assess and critique scholarly arguments and evaluate the strength of the visual and textual evidence presented.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies	4
Quantitative Reasoning A		3 Science Breadth	3
Foreign Language		4 Intro level Art History course	3-4
Intro level Art History course		3-4 Foreign Language	4
	<b>14</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		4 Communication B	4
ART HIST 300-level		4 ART HIST 300-level	3-4
Social Science Breadth		4 ART HIST 400-level	3-4
Biological Science Breadth		3 Social Science Breadth	3
INTER-LS 210		1	
	<b>16</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits)		ART HIST Theory & Method course	3
ART HIST 400-level course	3	Science Breadth	3
Physical Science Breadth	3	ART HIST elective	3
Social Science Breadth	3	Social Science Breadth	3
Electives	6	Elective	3
	<b>15</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
ART HIST 500-level course	3	ART HIST elective	3
Electives	6	Literature Breadth	3
Senior Thesis	3	Senior Thesis in major	3
Literature Breadth	3	Elective	6
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

The Department of Art History individually mentors its majors toward careers in a wide range of fields. Our academic advisor and director of undergraduate studies are always available to discuss postdegree options. We also work closely with SuccessWorks at the College of Letters & Science to help students best apply the knowledge and skills acquired in the art history major in conjunction with other certificates or majors. We encourage majors to seek information from art history faculty and advisors—as well as from L&S Advising—about career paths and internships; preparation for the job search; and applying to graduate school. Both the department and L&S also provide networking opportunities with professionals in the field (employers and alumni).

Letters & Science graduates, and art history majors in particular, have unique perspectives, knowledge, and skills that make them highly desirable to today's employers.

Students who wish to continue on to graduate studies in art history or related fields, or who simply desire more advanced work in art history, are strongly encouraged to pursue Honors in the Major. Students should begin to plan honors work in art history with their honors advisor as early as possible in their careers and should check with the departmental undergraduate advisor at least once a year to seek guidance about planning the best possible Honors in the Major curriculum that reflects their special interests.

**Notes about the major requirements:**

- Art History AP credits with a score of 4 or higher and 100-level Art History courses count only toward the nine-course minimum but do not count toward distribution requirements.
- Courses at the 200 level count only toward the nine-course minimum and 200-level requirements for the major (ART HIST 206 and ART HIST/AFROAMER 242 are exceptions).
- ART HIST/AFROAMER 242 is the only 200-level course that counts toward any content distribution requirements.

- All courses numbered between 200 and 680 count toward level requirements. 600-level courses generally count toward the 400-level requirement.
- Most courses at the 300 and 400 level, and some courses at the 600 level, count toward content distribution requirements. (Example: ART HIST 305 may count in each of the following requirement areas: **1.** 300 level *and* **2.** Chronological—either Ancient to Medieval or Early Modern *and* **3.** Geographic—either Cross-Cultural Diaspora or Africa/Middle East)
- Proseminars generally do not satisfy distribution requirements.
- Special topics (including ART HIST 600 Special Topics in Art History) and study abroad courses may satisfy one or more distribution requirements, even if they are not shown in Chronological, Geographic, or Theory and Method categories. In case of questions about how a course might count, students should consult the major advisor.
- Courses footnoted in the Requirements section may meet more than one area of Chronological distribution, Geographical distribution, or both. In nearly all cases, the degree audit (DARS) will select the most advantageous category for students to complete their requirement. In the rare case that an adjustment is necessary, consult the major advisor.

**Career Resources:****L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**Art History Department Resources**

- Art History professional development webpage (<https://arthistory.wisc.edu/undergraduate-program/#professional-development>)
- Why major in Art History? (<https://arthistory.wisc.edu/undergraduate-program/#about-the-major>)
- Art History majors discuss the value of the degree (<https://arthistory.wisc.edu/undergraduate-program/#testimonials>)
- Art History's internship course: ART HIST 697 Undergraduate Curatorial Studies Internship (Directed Study)

This directed study may serve as an elective for the material culture certificate program, or for a specific stand-alone project. The goal is to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: assisting a curator or registrar with research for an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing catalog entries or essays on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; assisting a curator preparing a dossier for acquisitions; researching conservation histories of objects; provenance research; preparing teaching materials associated with an exhibition or permanent collection either in print or online; preparing and giving public tours of exhibitions or permanent collections; participating in exhibition design. To fulfill a 3-credit internship, the student must average approximately twelve hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of one hour each month. Requires permission to work with faculty member to receive credit for internship project. 1–3 cr.

- Links to relevant career preparation information listed on professional association websites:

Career Alternatives for Art Historians (<https://www3.nd.edu/~crosenbe/jobs.html>)

Careers by Major—Art & Art History (<https://www.utm.utoronto.ca/careers/careers-by-major-art-art-history/>) (University of Toronto)

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, De Ferrari, Marshall, Rosenblum (chair)

Associate Professors Li, Phillips-Court, Pruitt

Assistant Professors Nelson, Spaulding

Affiliate Professors Aylward, Clark, Kern, Moskowitz, Nadler, Wolf

Affiliate Associate Professor Abdu'Allah

Affiliate Assistant Professors Campbell, Carter

Affiliate UW–Milwaukee Associate Professors Benjamin, Sen

Affiliate UW–Milwaukee Assistant Professor Moon

## WISCONSIN EXPERIENCE

The Department of Art History promotes an understanding of art, architecture, objects, and ideas worthy of close visual analysis to be local, hemispheric, transnational, and international, and existing both within and outside of traditional institutions of display. In guiding our students to develop skills in visual analysis, close reading, historical contextualization, and communication and interpretation through writing about art, conducting research on objects in our museum collections, and organizing exhibitions, our department is committed to building an understanding of how humans perceive, create, and inhabit the world. Opportunities to work with and present collections to the public, both at the Chazen Museum and through internships at other Wisconsin institutions, afford our students the chance to connect with diverse audiences beyond the borders of campus.

## ART HISTORY, B.S.

### OVERVIEW

The art history major provides a foundation for answering key questions about what it means to be human as well as valuable skills for today's workplaces. A specialized focus on images, objects, and the built environment promotes critical and creative approaches to analysis, problem-solving, writing, and visual communication in a variety of media. Interdisciplinary collaborations encourage aesthetic, historical, economic, and ethical questions in order to produce new knowledge, sophisticated readers, engaged writers, critical viewers, independent thinkers, and confident cultural citizens who are well prepared to thrive in global society.

Through innovative research, teaching, and outreach activities, the Department of Art History takes a leading role in promoting visual literacy, emphasizing careful attention to continuities and differences across human history and world cultures. Examining expressive forms, from artifacts to new media, the department explores the ways in which art and visual and material culture are fully integrated into larger cultural histories.

### STUDY ABROAD

The department strongly encourages art history majors to participate in study abroad programs. Students gain firsthand experience of other cultures and languages and have the opportunity to study major artistic monuments. Credit for appropriate coursework can be applied toward the major after arrangements have been made with the study abroad program, or, in the case of non-UW study abroad programs, the Office of Admissions and Recruitment. For more information, see the Study Abroad website (<http://www.studyabroad.wisc.edu/>).

### HOW TO GET IN

Students considering art history as a major should come to the department for advising as early as possible in their undergraduate careers. Upon declaration, students are strongly encouraged to meet regularly with the undergraduate program advisor to ensure timely progress toward completion of the degree. Annual meetings with the director of undergraduate studies are also highly encouraged. More detailed information can be found at Declaring the Art History Major (<https://arthistory.wisc.edu/undergraduate-program/#advising>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison

• 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR FOREIGN LANGUAGE

Note: A unit is one year of high school work or one semester/term of college work.

- Complete the fourth unit of a foreign language; **or**
- Complete the third unit of a foreign language **and** the second unit of an additional foreign language.

### LEVEL REQUIREMENTS

Nine (9) courses in ART HIST as follows:

#### Intro-level ART HIST (two required)

Code	Title	Credits
ART HIST 102	Seeing Through Conspiracy Theories	
ART HIST 104	The Art of Diversity: Race and Representation in the Art and Visual Culture of the United States	
ART HIST 106	Have Brush, Will Travel: The Italian Renaissance from Florence to Rome	
ART HIST 107	The Body, Sex, & Health in Art	
ART HIST 130	Seeing Race: Anti-Racism and Visual Culture	
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 203	Survey of Asian Art	
ART HIST 205	Global Arts	
ART HIST 210	A History of the World in 20 Buildings	
ART HIST 227	The Ends of Modernism	
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	

ART HIST/  
ANTHRO/  
DS/HISTORY/  
LAND ARC 264

Dimensions of Material Culture

### 300-level ART HIST (three required)

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST 303	Topics in Art History	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 335	Study Abroad in Ancient/Medieval Art	
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 337	Study Abroad in 18th-20th Century Art	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST 341	Italian Baroque Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 355	History of Photography	
ART HIST 357	History of Wisconsin Architecture, 1800-present	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840	

ART HIST 364

History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present

ART HIST 365

The Concept of Contemporary Art

ART HIST 372

Arts of Japan

ART HIST/  
RELIG ST 373

Great Cities of Islam

ART HIST 375

Later Japanese Painting and Woodblock Prints

ART HIST/  
ASIAN 379

Cities of Asia

### 400-level ART HIST (two required)

Code	Title	Credits
ART HIST 403	Topics in Art History	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST 411	Topics in Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 420	Topics in Italian Renaissance Art	
ART HIST 425	Race and Gender in Italian Early Modern Art	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 435	Study Abroad in Ancient/Medieval Art	
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 437	Study Abroad in 18th-20th Century Art	
ART HIST 438	Study Abroad in African/Asian Art	
ART HIST 440	Art and Power in the Arab World	
ART HIST 454	Art in Germany, 1900-1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
ART HIST 468	Frank Lloyd Wright	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	
ART HIST 479	Art and History in Africa	
ART HIST 601	Introduction to Museum Studies I	
ART HIST 602	Introduction to Museum Studies II	
ART HIST 603	Curatorial Studies Colloquium	

**500-level ART HIST (one required)**

Code	Title	Credits
ART HIST 500	Proseminar: Special Topics in Art History	
ART HIST 505	Proseminar in Ancient Art	
ART HIST 506	Curatorial Studies Exhibition Practice	
ART HIST 510	Proseminar in Islamic Art and Architecture	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 525	Proseminar in Italian Renaissance Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
ART HIST 563	Proseminar in Material Culture	
ART HIST 567	Proseminar in American Architecture	
ART HIST 569	Interdisciplinary Studies in the Arts	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
ART HIST 579	Proseminar in African Art	

**Electives to meet minimum nine courses required**

Code	Title	Credits
ART HIST 100-699		

**CHRONOLOGICAL DISTRIBUTION**

Of the nine required ART HIST courses, at least one course from each area:

**Ancient to Medieval**

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 335	Study Abroad in Ancient/Medieval Art	
ART HIST 372	Arts of Japan <sup>1</sup>	

ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 435	Study Abroad in Ancient/Medieval Art	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	

**Early Modern (Circa 1400–Circa 1800)**

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 341	Italian Baroque Art	
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ RELIG ST 373	Great Cities of Islam	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 420	Topics in Italian Renaissance Art	
ART HIST 425	Race and Gender in Italian Early Modern Art	
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art	
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>	
ART HIST 479	Art and History in Africa	

**Modern (Circa 1800–Circa 1945)**

Code	Title	Credits
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 337	Study Abroad in 18th–20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	History of Wisconsin Architecture, 1800–present	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620–1840 <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607–present <sup>1</sup>	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST/ASIAN 428	Visual Cultures of India	
ART HIST 437	Study Abroad in 18th–20th Century Art	
ART HIST 454	Art in Germany, 1900–1945	
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>	
ART HIST 468	Frank Lloyd Wright	
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>	

**Contemporary (Post 1945)**

Code	Title	Credits
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods <sup>1</sup>	
ART HIST 337	Study Abroad in 18th–20th Century Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present <sup>1</sup>	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607–present <sup>1</sup>	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 372	Arts of Japan <sup>1</sup>	
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>	

ART HIST 408	Topics in Twentieth-Century Art
ART HIST 409	Topics in Contemporary Art
ART HIST/ASIAN 428	Visual Cultures of India
ART HIST 437	Study Abroad in 18th–20th Century Art
ART HIST 457	History of American Vernacular Architecture and Landscapes <sup>1</sup>
ART HIST 468	Frank Lloyd Wright
ART HIST 475	Japanese Ceramics and Allied Arts <sup>1</sup>
ART HIST 479	Art and History in Africa

**GEOGRAPHIC DISTRIBUTION**

Of the nine required ART HIST courses, at least one course from **three** of these **five** areas:

**Cross-Cultural/Diaspora**

Code	Title	Credits
ART HIST/AFROAMER 242	Introduction to Afro-American Art	
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST/RELIG ST 373	Great Cities of Islam	
ART HIST/ASIAN 379	Cities of Asia <sup>1</sup>	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	

**Africa/Middle East**

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture <sup>1</sup>	
ART HIST 338	Study Abroad in African/Asian Art	
ART HIST/RELIG ST 373	Great Cities of Islam	
ART HIST 412	Topics in African and African Diaspora Art History <sup>1</sup>	
ART HIST 413	Art and Architecture in the Age of the Caliphs <sup>1</sup>	
ART HIST 440	Art and Power in the Arab World <sup>1</sup>	
ART HIST 479	Art and History in Africa	

**Asia**

Code	Title	Credits
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 338	Study Abroad in African/Asian Art	



ART HIST 372	Arts of Japan
ART HIST/ RELIG ST 373	Great Cities of Islam
ART HIST 375	Later Japanese Painting and Woodblock Prints
ART HIST/ ASIAN 379	Cities of Asia <sup>1</sup>
ART HIST 411	Topics in Asian Art
ART HIST/ ASIAN 428	Visual Cultures of India
ART HIST 475	Japanese Ceramics and Allied Arts
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan

## Europe

Code	Title	Credits
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 320	Italian Renaissance Art	
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
ART HIST 341	Italian Baroque Art	
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present <sup>1</sup>	
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 407	Topics in Nineteenth Century Art	
ART HIST 408	Topics in Twentieth-Century Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 420	Topics in Italian Renaissance Art	

ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 454	Art in Germany, 1900-1945

## The Americas

Code	Title	Credits
ART HIST 355	History of Photography <sup>1</sup>	
ART HIST 357	History of Wisconsin Architecture, 1800-present	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840	
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
ART HIST 468	Frank Lloyd Wright	

## THEORY AND METHOD DISTRIBUTION

Of the nine required ART HIST courses, at least one course from:

Code	Title	Credits
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 355	History of Photography	
ART HIST 365	The Concept of Contemporary Art	
ART HIST 409	Topics in Contemporary Art	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 430	Topics in Visual Culture	
ART HIST 431	Topics in Theory	
ART HIST 469	Interdisciplinary Studies in the Arts	
ART HIST 601	Introduction to Museum Studies I	
ART HIST 602	Introduction to Museum Studies II	
ART HIST 603	Curatorial Studies Colloquium	
ART HIST/ ASIAN 621	Mapping, Making, and Representing Colonial Spaces	
ART HIST/ HISTORY/ JOURN/LIS 650	History of Books and Print Culture in Europe and North America	

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in ART HIST and major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits in ART HIST taken on the UW-Madison campus
- AP Art History credits may count toward the nine (9) course minimum for the Art History major but not toward the 200-level requirement

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Art History undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all ART HIST courses
- Complete a two-semester Senior Honors Thesis in ART HIST 681 and ART HIST 682, for a total of 6 credits.
- Present an oral report on work in an undergraduate Honors colloquium during the senior year

## FOOTNOTES

1

Course is accepted in one or more Chronological or Geographical areas, but will only apply to one of those areas. Students with questions should consult the academic advisor for this program.

2

ART HIST courses numbered 300–699 are considered upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Skill in visual analysis of single images and comparative analysis of multiple images and objects, evaluating a range of elements such as form, color, light, proportion, viewpoint, material, and narrative structure.
2. Proficiency in interpreting images and objects in ways that take into account the historical contexts in which they were produced and received.

3. Consolidation of knowledge across a range of time and geography to reach an understanding of the ways in which art and its meaning are rooted in culture.
4. Ability to locate and enlist research resources in both print and digital form and assess the strengths and weaknesses of various types of resources.
5. Knowledge and skills to interpret images and objects in ways that consider a variety of theoretical perspectives.
6. Ability to assess and critique scholarly arguments and evaluate the strength of the visual and textual evidence presented.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies	4
Quantitative Reasoning A		3 Science Breadth	3
Foreign Language		4 Intro level Art History course	3-4
Intro level Art History course		3-4 Foreign Language	4
		<b>14</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		4 Communication B	4
ART HIST 300-level		4 ART HIST 300-level	3-4
Social Science Breadth		4 ART HIST 400-level	3-4
Biological Science Breadth		3 Social Science Breadth	3
INTER-LS 210		1	
		<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits)		ART HIST Theory & Method course	3
ART HIST 400-level course		3 Science Breadth	3
Physical Science Breadth		3 ART HIST elective	3
Social Science Breadth		3 Social Science Breadth	3
Electives		6 Elective	3
		<b>15</b>	<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
ART HIST 500-level course		3 ART HIST elective	3
Electives		6 Literature Breadth	3
Senior Thesis		3 Senior Thesis in major	3
Literature Breadth		3 Elective	6
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

The Department of Art History individually mentors its majors toward careers in a wide range of fields. Our academic advisor and director of undergraduate studies are always available to discuss postdegree options. We also work closely with SuccessWorks at the College of Letters & Science to help students best apply the knowledge and skills acquired in the art history major in conjunction with other certificates or majors. We encourage majors to seek information from art history faculty and advisors—as well as from L&S Advising—about career paths and internships; preparation for the job search; and applying to graduate school. Both the department and L&S also provide networking opportunities with professionals in the field (employers and alumni).

Letters & Science graduates, and art history majors in particular, have unique perspectives, knowledge, and skills that make them highly desirable to today's employers.

Students who wish to continue on to graduate studies in art history or related fields, or who simply desire more advanced work in art history, are strongly encouraged to pursue Honors in the Major. Students should begin to plan honors work in art history with their honors advisor as early as possible in their careers and should check with the departmental undergraduate advisor at least once a year to seek guidance about planning the best possible Honors in the Major curriculum that reflects their special interests.

**Notes about the major requirements:**

- Art History AP credits with a score of 4 or higher and 100-level Art History courses count only toward the nine-course minimum but do not count toward distribution requirements.
- Courses at the 200 level count only toward the nine-course minimum and 200-level requirements for the major (ART HIST 206 and ART HIST/AFROAMER 242 are exceptions).
- ART HIST/AFROAMER 242 is the only 200-level course that counts toward any content distribution requirements.
- All courses numbered between 200 and 680 count toward level requirements. 600-level courses generally count toward the 400-level requirement.
- Most courses at the 300 and 400 level, and some courses at the 600 level, count toward content distribution requirements. (Example: ART HIST 305 may count in each of the following requirement areas: **1.** 300 level *and* **2.** Chronological—either Ancient to Medieval or Early Modern *and* **3.** Geographic—either Cross-Cultural Diaspora or Africa/Middle East)
- Proseminars generally do not satisfy distribution requirements.

- Special topics (including ART HIST 600 Special Topics in Art History) and study abroad courses may satisfy one or more distribution requirements, even if they are not shown in Chronological, Geographic, or Theory and Method categories. In case of questions about how a course might count, students should consult the major advisor.
- Courses footnoted in the Requirements section may meet more than one area of Chronological distribution, Geographical distribution, or both. In nearly all cases, the degree audit (DARS) will select the most advantageous category for students to complete their requirement. In the rare case that an adjustment is necessary, consult the major advisor.

**Career Resources:****L&S CAREER RESOURCES**

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
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  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**Art History Department Resources**

- Art History professional development webpage (<https://arthistory.wisc.edu/undergraduate-program/#professional-development>)
- Why major in Art History? (<https://arthistory.wisc.edu/undergraduate-program/#about-the-major>)
- Art History majors discuss the value of the degree (<https://arthistory.wisc.edu/undergraduate-program/#testimonials>)
- Art History's internship course: ART HIST 697 Undergraduate Curatorial Studies Internship (Directed Study)

This directed study may serve as an elective for the material culture certificate program, or for a specific stand-alone project. The goal is to give students credit for applied learning experiences in museums and other curatorial settings. Students must identify internship possibilities and have them approved for credit by the faculty member who will serve as instructor of record, and oversee the academic side of the internship. The nature of the internship will vary according to the host institution, but to be accepted for credit, it must have a substantial research component. Examples include but are not limited to: assisting a curator or registrar with research for an exhibition or permanent collection display; producing wall texts and object labels in an exhibition or permanent collection display; researching and writing catalog entries or essays on an object or objects in an exhibition or permanent collection; preparing catalog entries for works in the permanent collection of a museum/historical society; assisting a curator preparing a dossier for acquisitions; researching conservation histories of objects; provenance research; preparing teaching materials associated with an exhibition or permanent collection either in print or online; preparing and giving public tours of exhibitions or permanent collections; participating in exhibition design. To fulfill a 3-credit internship, the student must average approximately twelve hours a week throughout the semester, including working at the host institution on individual projects, and performing any necessary research and writing outside the host institution. In addition, the student should meet with the faculty advisor for a minimum of one hour each month. Requires permission to work with faculty member to receive credit for internship project. 1-3 cr.

- Links to relevant career preparation information listed on professional association websites:

Career Alternatives for Art Historians (<https://www3.nd.edu/~crosenbe/jobs.html>)

Careers by Major—Art & Art History (<https://www.utm.utoronto.ca/careers/careers-by-major-art-art-history/>) (University of Toronto)

## PEOPLE

Professors Andrzejewski, Cahill, Casid, Chopra, Dale, De Ferrari, Marshall, Rosenblum (chair)

Associate Professors Li, Phillips-Court, Pruitt

Assistant Professors Nelson, Spaulding

Affiliate Professors Aylward, Clark, Kern, Moskowitz, Nadler, Wolf

Affiliate Associate Professor Abdu'Allah

Affiliate Assistant Professors Campbell, Carter

Affiliate UW-Milwaukee Associate Professors Benyamin, Sen

Affiliate UW-Milwaukee Assistant Professor Moon

## WISCONSIN EXPERIENCE

The Department of Art History promotes an understanding of art, architecture, objects, and ideas worthy of close visual analysis to be local, hemispheric, transnational, and international, and existing both within and outside of traditional institutions of display. In guiding our students to develop skills in visual analysis, close reading, historical contextualization, and communication and interpretation through writing about art, conducting research on objects in our museum collections,

and organizing exhibitions, our department is committed to building an understanding of how humans perceive, create, and inhabit the world. Opportunities to work with and present collections to the public, both at the Chazen Museum and through internships at other Wisconsin institutions, afford our students the chance to connect with diverse audiences beyond the borders of campus.

## ART HISTORY, CERTIFICATE

The art history certificate requires four courses and is open to any undergraduate major.

The certificate is designed to meet twenty-first century needs by promoting visual literacy in an increasingly visual world. Our classes teach critical and creative approaches to analysis, problem-solving, writing, and visual communication using a variety of artistic media, including painting, sculpture, architecture, photography, prints, ephemera, and the decorative arts.

Students earning the certificate will hone skills in visual analysis and interpretation that make them more competitive in a variety of today's fields of employment, including (but not limited to) professions in the arts, in social sciences, and in physical sciences—all of which require the skills taught in our courses.

### Important Notes:

- Students who are thinking about declaring the Art History Certificate as well as the Material Culture Certificate: Undergraduate students may request permission to complete both the Art History Certificate and the Material Culture Certificate but **only one course** may overlap between the two certificates. Please consult with the undergraduate advisor, Teddy Kaul ([ejkaul@wisc.edu](mailto:ejkaul@wisc.edu)), with any questions.
- Only one transfer course from another institution may be counted toward the Art History Certificate. (This does not include UW-Madison study abroad programs for which courses taken in these programs are considered "in residence.")
- AP credits may count toward the "Electives" course requirement for the Art History Certificate.

## HOW TO GET IN

Students are eligible to declare the certificate at any point in their studies. We encourage students to declare as early as possible in order to plan their required coursework. Students should contact the undergraduate advisor to declare the certificate.

Students thinking about declaring the Art History Certificate as well as the Material Culture Certificate: Undergraduate students may request permission to complete both the Art History Certificate and the Material Culture Certificate but **only one course** can overlap between the two certificates. Please consult with the undergraduate advisor with any questions.

Students declared in the Art History major may not declare the Certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Four courses and 12 credits are required, as follows:

#### INTERMEDIATE SURVEY COURSE

Code	Title	Credits
<b>Complete one:</b>		
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	3-4
ART HIST 301	Myths, Loves, and Lives in Greek Vases	3-4
ART HIST 302	Greek Sculpture	3-4
ART HIST 303	Topics in Art History	3
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	3
ART HIST 318	Romanesque and Gothic Art and Architecture	3-4
ART HIST 320	Italian Renaissance Art	3-4
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy	3-4
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	3-4
ART HIST 335	Study Abroad in Ancient/Medieval Art	1-6
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	1-6
ART HIST 337	Study Abroad in 18th-20th Century Art	1-6
ART HIST 338	Study Abroad in African/Asian Art	1-6
ART HIST 341	Italian Baroque Art	3-4
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	3-4
ART HIST 350	19th Century Painting in Europe	3-4
ART HIST 351	20th Century Art in Europe	3-4
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
ART HIST 355	History of Photography	3
ART HIST 357	History of Wisconsin Architecture, 1800-present	3

ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	3
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	3
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840	3-4
ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	3-4
ART HIST 365	The Concept of Contemporary Art	3-4
ART HIST 372	Arts of Japan	3-4
ART HIST/ RELIG ST 373	Great Cities of Islam	3
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST/ ASIAN 379	Cities of Asia	3

#### AREA FOCUS

Code	Title	Credits
<b>Complete one:</b>		
ART HIST 403	Topics in Art History	3
ART HIST 405	Cities and Sanctuaries of Ancient Greece	3
ART HIST 407	Topics in Nineteenth Century Art	3-4
ART HIST 408	Topics in Twentieth-Century Art	3-4
ART HIST 409	Topics in Contemporary Art	3
ART HIST 411	Topics in Asian Art	3-4
ART HIST 412	Topics in African and African Diaspora Art History	3-4
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	3
ART HIST 420	Topics in Italian Renaissance Art	3
ART HIST 425	Race and Gender in Italian Early Modern Art	3
ART HIST/ ASIAN 428	Visual Cultures of India	3
ART HIST 430	Topics in Visual Culture	3
ART HIST 431	Topics in Theory	3
ART HIST 435	Study Abroad in Ancient/Medieval Art	1-6
ART HIST 436	Study Abroad in Renaissance/Baroque/Northern Art	1-6
ART HIST 437	Study Abroad in 18th-20th Century Art	1-6
ART HIST 438	Study Abroad in African/Asian Art	1-6
ART HIST 440	Art and Power in the Arab World	3
ART HIST 454	Art in Germany, 1900-1945	3-4
ART HIST 457	History of American Vernacular Architecture and Landscapes	3
ART HIST 468	Frank Lloyd Wright	3-4
ART HIST 469	Interdisciplinary Studies in the Arts	1-4
ART HIST 475	Japanese Ceramics and Allied Arts	3

ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3	ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST 479	Art and History in Africa	3-4	ART HIST 202	History of Western Art II: From Renaissance to Contemporary	4
ART HIST 600	Special Topics in Art History	3	ART HIST 203	Survey of Asian Art	3-4
ART HIST 601	Introduction to Museum Studies I	3	ART HIST 205	Global Arts	4
ART HIST 602	Introduction to Museum Studies II	3	ART HIST 206	Survey of Photography: 1839 to 1989	3-4
ART HIST 603	Curatorial Studies Colloquium	3	ART HIST 210	A History of the World in 20 Buildings	3
ART HIST/ASIAN 621	Mapping, Making, and Representing Colonial Spaces	3	ART HIST 227	The Ends of Modernism	4
ART HIST/HISTORY/ JOURN/L I S 650	History of Books and Print Culture in Europe and North America	3	ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	3

## PROSEMINAR

Code	Title	Credits	Code	Title	Credits
<b>Complete one:</b>					
ART HIST 500	Proseminar: Special Topics in Art History	3	ART HIST 681	Senior Honors Thesis	3
ART HIST 505	Proseminar in Ancient Art	3	ART HIST 682	Senior Honors Thesis	3
ART HIST 506	Curatorial Studies Exhibition Practice	3	ART HIST 691	Senior Thesis	3-6
ART HIST 510	Proseminar in Islamic Art and Architecture	3	ART HIST 692	Senior Thesis	3-6
ART HIST 515	Proseminar in Medieval Art	3	ART HIST 697	Undergraduate Curatorial Studies Internship (Directed Study)	1-3
ART HIST 525	Proseminar in Italian Renaissance Art	3	ART HIST 698	Directed Study	2-3
ART HIST 535	Proseminar in Northern European Painting	3	ART HIST 699	Directed Study	1-3
ART HIST 555	Proseminar in 19th Century European Art	3			
ART HIST 556	Proseminar in 20th Century European Art	3			
ART HIST 567	Proseminar in American Architecture	3			
ART HIST 569	Interdisciplinary Studies in the Arts	1-4			
ART HIST 575	Proseminar in Japanese Art	3			
ART HIST 576	Proseminar in Chinese Art	3			
ART HIST 579	Proseminar in African Art	3			

## ELECTIVES

To attain the minimum 4 courses and 12 credits, complete any course listed above not needed for the area requirements, or any of the courses in the list below. AP credits may count toward the "Electives" course requirement for the Art History Certificate.

Code	Title	Credits
ART HIST 102	Seeing Through Conspiracy Theories	3
ART HIST 103	Topics in Art History	3-4
ART HIST 104	The Art of Diversity: Race and Representation in the Art and Visual Culture of the United States	3-4
ART HIST 105	Introductory Topics in Art History	3
ART HIST 106	Have Brush, Will Travel: The Italian Renaissance from Florence to Rome	3
ART HIST 107	The Body, Sex, & Health in Art	3
ART HIST 130	Seeing Race: Anti-Racism and Visual Culture	3

## RESIDENCE AND QUALITY OF WORK

- At least 6 Certificate credits must be earned in residence
- A 2.000 GPA is required in all courses approved for the certificate

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Describe objects and images accurately; identify different stylistic characteristics and media; recall artists and art movements; analyze images.
2. Interpret art in context of deeper historical knowledge of specific cultures, acquire critical reading skills, integrate research.
3. Apply critical reading and writing skills, produce original interpretations, make plausible arguments based on visual and historical evidence, acquire sophisticated research abilities; formal oral presentation skills.

## ADVISING AND CAREERS

Advising questions may be directed to the undergraduate advisor, Teddy Kaul (ejkaul@wisc.edu), or the director of undergraduate studies in the department.

Each fall, the department hosts an Art History Majors and Career Fair for majors and certificate students as well as anyone interested in the field. We discuss course opportunities and internships on campus and in the community. We also invite alumni to speak about their career paths. Our director of undergraduate studies also hosts a workshop on "How to Apply to Graduate School" each fall. We also work with SuccessWorks (<https://careers.ls.wisc.edu/>) to organize events for our students.

## L&S CAREER RESOURCES

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Affiliate Professors Aylward, Clark, Kern, Moskowitz, Nadler, Wolf

Affiliate Associate Professor Abdu'Allah

Affiliate Assistant Professors Campbell, Carter

Islanders, and immigrants to the United States from Asian heritage groups. The program sheds light on Asian American experiences and concerns, both historically and in contemporary society. The certificate in Asian American studies provides students with an opportunity to develop a sustained intellectual focus on Asian American racial formation, communities, and culture. The program also serves as a teaching and resource center not only for Asian Americans but for the University and Madison community as a whole.

Courses offered by the program and through other departments incorporate the perspective of a variety of disciplines: anthropology, communication arts, cultural studies, dance, education, English, ethnic studies, film, history, human development and family studies, journalism, literature, media, political science, popular culture, psychology, sociology, theatre, and visual arts. New course topics are introduced each year. Examples of past topics include: Asian American History, Asian American Literature, Asian American Women Writers, Asian Americans in the Midwest, Hmong American Studies, Contemporary Legal Issues in Asian American Communities, Mixed Race Asian Americans, Asian American Cultural Politics, Southeast Asian Americans in US Schools, Asian American Dance, Asian Americans & Media, Afro-Asian Improvisational Dance, Psychology of Hmong Americans, and community-based research and service-learning courses.

All program courses fulfill the ethnic studies requirement and breadth requirements in the appropriate divisions.

## DEGREES/MAJORS/CERTIFICATES

- Asian American Studies, Certificate (p. 440)

## PEOPLE

Ian Baird (Geography)

Leslie Bow (English/Asian American Studies)

Cindy I-Fen Cheng (History/Asian American Studies)

Peggy Choy (Dance/Asian American Studies)

Michael Cullinane (Center for Southeast Asian Studies)

Joan H. Fujimura (Sociology)

Lisa Ho (Asian American Studies)

Florence Hsia (History of Science)

Juliet Huynh (English)

Eden Inoway-Ronnie (Office of Provost)

Gabriel "Gabe" Javier (Student Affairs)

Victor Jew (Asian American Studies)

Monica Kim (History/Asian American Studies)

Eileen Lagman (English)

Lori Kido Lopez (Communication Arts)

Nicole Louie (Curriculum and Instruction)

Stacey Lee (Educational Policy Studies)

Ella Mae Matsumura (Business)

Jan Miyasaki (Asian American Studies)

Beth (Bich Minh) Nguyen (English)

Pamela Oliver (Sociology)

Linda Park (Medicine and Public Health)

Hement Shah (Journalism and Mass Communication)

Lillian Tong (Center of Biology Education)

Paul Tran (English/Asian American Studies)

Goodson Vue (PEOPLE Program)

Morris Young (English)

Jing Yu (School of Education/Asian American Studies)

## ASIAN AMERICAN STUDIES PROGRAM

The Asian American Studies Program is an interdisciplinary program that focuses on the scholarship and experiences of Americans, Pacific

Timothy Yu (English/Asian American Studies)

## ASIAN AMERICAN STUDIES, CERTIFICATE

The Asian American Studies Certificate Program provides students with an opportunity to develop a sustained intellectual focus on Asian American racial formation, history, literature, culture, and social concerns. Interdisciplinary in nature, the certificate can be obtained by completing 12 credits of coursework.

### HOW TO GET IN

For more information or to declare the certificate, please contact the Asian American Studies Program at [asianamerican@lets.ci.wisc.edu](mailto:asianamerican@lets.ci.wisc.edu).

### REQUIREMENTS

## REQUIREMENTS FOR THE CERTIFICATE

The Asian American Studies Certificate Program provides students with an opportunity to develop a sustained intellectual focus on Asian American racial formation, history, literature, culture, and social concerns. Interdisciplinary in nature, the certificate can be obtained by completing 12 credits of coursework.

### 12 CREDITS ARE REQUIRED, TO INCLUDE:

Code	Title	Credits
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/AFROAMER/AMER IND/CHICLA/FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3
ASIAN AM/DANCE 121	Asian American Movement	3
ASIAN AM/ENGL 150	Literature & Culture of Asian America	3
ASIAN AM 152	Asian American Literary and Popular Culture: Race, Fantasy, Futures	3
ASIAN AM/HISTORY 160	Asian American History: Movement and Dislocation	3-4
ASIAN AM/HISTORY 161	Asian American History: Settlement and National Belonging	3-4
ASIAN AM 170	Hmong American Experiences in the United States	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM/ASIAN/HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN AM 250	Eating Asian America	3
ASIAN AM/ENGL 270	A Survey of Asian American Literature	3

ASIAN AM/AFROAMER/DANCE/FOLKLORE 319	Afro Asian Improv: From Hip Hop to Martial Arts Fusion	3
ASIAN AM/COM ARTS 420	Asian Americans and Media	3
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3
ASIAN AM/ENGL 462	Topic in Asian American Literature	3
ASIAN AM/ENGL/GEN&WS 463	Race and Sexuality in American Literature	3
ASIAN AM/ENGL/GEN&WS 464	Asian American Women Writers	3
ASIAN AM/ENGL 465	Asian American Poetry	3
ASIAN AM 540	Special Topics	3
ASIAN AM 560	Humanities Topics	3
ASIAN AM/JOURN 662	Mass Media and Minorities	4
ASIAN AM 699	Independent Study: Directed Readings in Asian American Studies	1-4
HISTORY/ASIAN/GEOG/POLI SCI/SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- 6 credits in the certificate, in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### ADVISING AND CAREERS

Please contact the Asian American Studies Program at [asianamerican@lets.ci.wisc.edu](mailto:asianamerican@lets.ci.wisc.edu) to set up a career advising appointment.

## L&S CAREER RESOURCES

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 Lillian Tong (Center of Biology Education)  
 Paul Tran (English/Asian American Studies)  
 Goodson Vue (PEOPLE Program)  
 Morris Young (English)  
 Jing Yu (School of Education/Asian American Studies)  
 Timothy Yu (English/Asian American Studies)

## ASIAN LANGUAGES AND CULTURES

The 21st century has been called the "Asian Century": indeed, many of the world's most pressing issues cannot be understood without a grasp of the histories, cultures, and languages of Asia. Asia is home to over half of the world's population. China, Japan, and India are three of the world's top economies. For decades, Asian countries have been leaders in global manufacturing, and Asian universities are renowned centers for literary

studies and scientific innovation. Fifty percent of the declared nuclear-weapon states are also in the region. Simply put, Asia matters a great deal.

The Department of Asian Languages and Cultures (ALC) offers a wide variety of courses on East, South, and Southeast Asia taught by faculty who are specialists in their regions and disciplines. Whether you are taking your first step toward learning about Asia or you bring some background experience, an ALC major will expand your ability to think and work across cultural and linguistic boundaries. Majors may opt to study Asia in a transnational and transhistorical perspective or in a more focused course of study by choosing one of our named options in East Asia, South Asia, and Southeast Asia.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the Certificate in Global Health, the Certificate in Health and the Humanities, or those offered by the area studies centers.

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC undergraduate advisor is especially important.

## STARTING COURSEWORK TOWARD THE MAJOR

Students may declare the Asian Languages and Cultures major at any time. Before declaring the major, students may begin coursework to explore the language and fields of interest. Those students who have studied an Asian language prior to coming to UW-Madison will have to take a placement test (<https://alc.wisc.edu/languages/placement-tests/>) for a language offered during the academic year to determine the best class to enroll in on campus.

Code	Title	Credits
<b>The courses noted below are open to freshman and have no prerequisites:</b>		
ASIAN 100	Gateway to Asia: Special Topics	3-4
ASIAN/ HISTORY 103	Introduction to East Asian History: China	3-4
ASIAN/ HISTORY 104	Introduction to East Asian History: Japan	3-4
ASIAN/ HISTORY 108	Introduction to East Asian History - Korea	3-4
ASIAN/COUN PSY/ ED PSYCH/ PSYCH 120	The Art and Science of Human Flourishing	3
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature	3
ASIAN/ RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4

ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN 252	Contemporary Indian Society	4
ASIAN 253	Japanese Popular Culture	3
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/ RELIG ST 274	Religion in South Asia	3
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2
LITTRANS 231	Manga	3
LITTRANS 232	Anime	3
LITTRANS 261	Survey of Chinese Literature in Translation	3
LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 263	Survey of Japanese Literature in Translation	3
LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS 373	Topics in Japanese Literature	3

**The language courses below are open to freshman and have no prerequisites:**

ASIALANG 101	First Semester Chinese	4
ASIALANG 103	First Semester Japanese	4
ASIALANG 105	First Semester Korean	4
ASIALANG 110	Elementary Chinese I	2
ASIALANG 113	First Semester Elementary Japanese	2
ASIALANG 123	First Semester Filipino	4
ASIALANG 125	First Semester Hmong	4
ASIALANG 127	First Semester Indonesian	4
ASIALANG 129	First Semester Thai	4
ASIALANG 131	First Semester Vietnamese	4
ASIALANG 133	First Semester Hindi	4
ASIALANG 135	First Semester Modern Tibetan	4
ASIALANG 137	First Semester Persian	4
ASIALANG 139	First Semester Urdu	4
ASIALANG 141	First Semester Sanskrit	3-4
ASIALANG 143	First Semester Burmese	4
ASIALANG 145	First Semester Khmer	4

## STUDY ABROAD & INTERNSHIP

The University of Wisconsin–Madison is ranked #2 for semester-long study abroad participation among all US institutions, and #16 among all US universities and colleges for total students studying abroad, according to the 2018 Open Doors Report (<https://www.iie.org/en/Why-IIE/Announcements/2018/11/2018-11-13-Number-of-International-Students-Reaches-New-High/>).

Currently there are 60 study abroad programs across Asia. Students who participate in approved programs will receive residence credit for study

abroad. More information about study abroad, application process, and costs is available through International Academic Programs (<https://www.studyabroad.wisc.edu/>). With pre-planning, students may fulfill major requirements during study abroad. It is important to meet with the undergraduate advisor to create a study plan.

Students can also gain professional experience through various internship opportunities abroad. More information about internship opportunities is available through International Internship Programs (<http://internships.international.wisc.edu/>).

## DEGREES/MAJORS/CERTIFICATES

- Asian Languages and Cultures, B.A. (p. 443)
- Asian Languages and Cultures, B.S. (p. 455)
- Chinese Professional Communication, Certificate (p. 467)
- Chinese, B.A. (p. 470)
- Chinese, B.S. (p. 476)
- Japanese Professional Communication, Certificate (p. 484)
- Japanese, B.A. (p. 487)
- Japanese, B.S. (p. 492)

## PEOPLE

## FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

## CAMPUS RESOURCES

Foreign Language & Area Studies (FLAS) Fellowships (<https://flas.wisc.edu/>)

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>) and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are two separate competitions requiring two separate and complete applications.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/>)

scholarships/campus-wide/) for research, service, and leadership—activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)

Campus Representative: Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director, International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries ([http://borenawards.org/boren\\_scholarship/preferences.html](http://borenawards.org/boren_scholarship/preferences.html))) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages ([http://borenawards.org/boren\\_scholarship/preferences.html](http://borenawards.org/boren_scholarship/preferences.html))).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)

Campus Representative: Mark Lilleleht ([awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)), Assistant Director, IRIS

The Critical Language Scholarship (CLS) Program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds, and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities, are encouraged to apply.

### Gilman Scholarship Program

Campus Representative: Andy Quackenbush ([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu)), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our academic programs.

Please visit the department website (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>) for more details.

## ASIAN LANGUAGES AND CULTURES, B.A.

The 21st century has been called the “Asian Century”: indeed, many of the world’s most pressing issues cannot be understood without a grasp of the histories, cultures, and languages of Asia. Asia is home to over half of the world’s population. China, Japan, and India are three of the world’s top economies. For decades Asian countries have been leaders in global manufacturing, and Asian universities are renowned centers for literary studies and scientific innovation. Fifty percent of the declared nuclear-weapon states are also in the region. Simply put, Asia matters a great deal.

The Department of Asian Languages and Cultures offers a wide variety of courses on East, South, and Southeast Asia taught by faculty who are specialists in their regions and disciplines. Whether you are taking your first step toward learning about Asia or you bring some background experience, an ALC major will expand your ability to think and work across cultural and linguistic boundaries. Majors may opt to study Asia in a transnational and transhistorical perspective or in a more focused course of study by choosing one of our named options in East Asia, South Asia, and Southeast Asia.

To take advantage of the Department of Asian Languages and Cultures’ many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the Certificate in Global Health, the Certificate in Health and the Humanities, or those offered by the area studies centers.

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC undergraduate advisor is especially important.

### East Asia

The East Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of China, Japan, Korea and Tibet. Students in the East Asian option can study Chinese, Japanese, Korean or Tibetan language and linguistics; and explore Chinese ghost stories and classical Chinese literature or poetry; Korean cinema and pop culture; classical Japanese fiction; early modern comedic narratives, manga, anime, and counterculture.

### South Asia

The South Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka, and Tibet. Students in the South Asian option can study Hindi, Persian, Sanskrit, Tibetan, or Urdu language; the roots of Yoga; methods of Buddhist philosophy and meditation; South Asian religion and politics in the past and present of the Indian subcontinent; and medical history in South Asia.

### Southeast Asia

The Southeast Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, and

Vietnam. Students in the Southeast Asian option can study Burmese, Filipino, Hmong, Indonesian, Khmer, Thai, and Vietnamese language; Human rights in Thailand; literature of the region; and history and politics in Southeast Asia.

## HOW TO GET IN

### PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Chinese, Filipino, Hindi, Hmong, Indonesian, Japanese, Korean, Persian, Thai, Tibetan, Urdu, and Vietnamese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

### DECLARING THE MAJOR

Declaring the major is as easy as meeting with the undergraduate advisor, make an appointment to review requirements and discuss course plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

Students may declare the major prior to completing the requisite language courses (1st and 2nd semester).

The Asian Languages and Cultures major has three named options. Students who intend to declare a named option may not be declared in a certificate program focused on the same region. Students may not combine the following programs:

- East Asian Studies named option and the Certificate in East Asian Studies
- South Asian Studies named option and the Certificate in South Asian Studies
- Southeast Asian Studies named option and the Certificate in Southeast Asian Studies

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must take 32 credits as follows:<sup>1</sup>

### INTRODUCTORY COURSE

Code	Title	Credits
ASIAN 100	Gateway to Asia: Special Topics	3-4

### INTERMEDIATE LANGUAGE COURSEWORK

Complete one pair of courses (8 credits):<sup>1</sup>

Code	Title	Credits
<b>East Asian languages</b>		
ASIALANG 201 & ASIALANG 202	Third Semester Chinese and Fourth Semester Chinese	8
ASIALANG 203 & ASIALANG 204	Third Semester Japanese and Fourth Semester Japanese	8
ASIALANG 205 & ASIALANG 206	Third Semester Korean and Fourth Semester Korean	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
<b>South Asian languages</b>		
ASIALANG 233 & ASIALANG 234	Third Semester Hindi and Fourth Semester Hindi	8
ASIALANG 237 & ASIALANG 238	Third Semester Persian and Fourth Semester Persian	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
ASIALANG 239 & ASIALANG 240	Third Semester Urdu and Fourth Semester Urdu	8
ASIALANG 241 & ASIALANG 242	Third Semester Sanskrit and Fourth Semester Sanskrit	8
<b>Southeast Asian languages</b>		
ASIALANG 243 & ASIALANG 244	Third Semester Burmese and Fourth Semester Burmese	8
ASIALANG 229 & ASIALANG 230	Third Semester Thai and Fourth Semester Thai	8
ASIALANG 223 & ASIALANG 224	Third Semester Filipino and Fourth Semester Filipino	8
ASIALANG 225 & ASIALANG 226	Third Semester Hmong and Fourth Semester Hmong	8
ASIALANG 227 & ASIALANG 228	Third Semester Indonesian and Fourth Semester Indonesian	8
ASIALANG 245 & ASIALANG 246	Third Semester Khmer and Fourth Semester Khmer	8
ASIALANG 231 & ASIALANG 232	Third Semester Vietnamese and Fourth Semester Vietnamese	8

## ASIAN STUDIES CONTENT COURSEWORK HUMANITIES

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN 253	Japanese Popular Culture	3
ASIAN 254		3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/RELIG ST 274	Religion in South Asia	3
ASIAN/RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN 311	Modern Indian Literatures	3
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 357	Japanese Ghost Stories	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN/AFRICAN/RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN 371	Topics in Chinese Literature	3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 374		3
ASIAN 375	Survey of Chinese Film	3
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN/ART HIST 379	Cities of Asia	3
ASIAN 403	Southeast Asian Literature	3
ASIAN/RELIG ST 405	Gods and Goddesses of South Asia	3
ASIAN/ART HIST 428	Visual Cultures of India	3
ASIAN/RELIG ST 430	Indian Traditions in the Modern Age	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 433	Topics in East Asian Visual Cultures	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN/COM ARTS 443	Indian Cinema and Beyond	3

ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3	LITTRANS 263	Survey of Japanese Literature in Translation	3
ASIAN/ RELIG ST 460	The History of Yoga	3	LITTRANS 264	Survey of Japanese Literature in Translation	3
ASIAN/ HISTORY 463	Topics in South Asian History	3	or ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	
ASIAN/ RELIG ST 466	Buddhist Thought	3	LITTRANS 368	Modern Japanese Fiction	3
ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3	LITTRANS 373	Topics in Japanese Literature	3
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3	LITTRANS 374	Topics in Korean Literature	3
ASIALANG 311	First Semester Classical Chinese	3	<b>SOCIAL SCIENCE</b>		
ASIALANG 312	Second Semester Classical Chinese	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ASIALANG 313	Classical Japanese	3	<b>Complete 9 credits from the following course options:</b>		
ASIALANG 315	First Semester Classical Chinese for Chinese Speakers	3	ASIAN/ HISTORY 103	Introduction to East Asian History: China	3-4
ASIALANG 316	Second Semester Classical Chinese for Chinese Speakers	3	ASIAN/ HISTORY 104	Introduction to East Asian History: Japan	3-4
ART HIST 203	Survey of Asian Art	3-4	ASIAN/ HISTORY 108	Introduction to East Asian History - Korea	3-4
ART HIST 305	History of Islamic Art and Architecture	3	ASIAN/COUN PSY/ ED PSYCH/ PSYCH 120	The Art and Science of Human Flourishing	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3	ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3	ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ART HIST 372	Arts of Japan	3-4	ASIAN 252	Contemporary Indian Society	4
ART HIST/ RELIG ST 373	Great Cities of Islam	3	ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4	ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2
ART HIST 411	Topics in Asian Art	3-4	ASIAN 301	Social Studies Topics in East Asian Studies	3
ART HIST/ ASIAN 428	Visual Cultures of India	3	ASIAN/ RELIG ST 306	Hinduism	3
ART HIST 475	Japanese Ceramics and Allied Arts	3	ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
COM ARTS/ ASIAN 443	Indian Cinema and Beyond	3	ASIAN/HISTORY 319	The Vietnam Wars	3-4
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2	ASIAN/ HISTORY 335	The Koreas: Korean War to the 21st Century	3-4
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2	ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4	ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
HISTORY 340	Cultural History of Korea	3-4	ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3	ASIAN/ HISTORY 363	China and World War II in Asia	3-4
INTL ST/ HISTORY 332	East Asia & The U.S. Since 1899	3-4	ASIAN/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LITTRANS 262	Survey of Chinese Literature in Translation	3	ASIAN/ HISTORY 454	Samurai: History and Image	3-4
or ASIAN 352	Survey of Modern Chinese Literature		ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
LITTRANS 261	Survey of Chinese Literature in Translation	3			

ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	3-4
ASIAN AM 170	Hmong American Experiences in the United States	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
GEOG 340	World Regions in Global Context	3
GEOG 358	Human Geography of Southeast Asia	3
HISTORY 142	History of South Asia to the Present	3-4
HISTORY 144	Traveling the World: South Asians in Diaspora	4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	3-4
HISTORY 450	Making of Modern South Asia	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
POP HLTH 640	Foundations in Global Health Practice	1
POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease	1
POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 323	Islam and World Politics	3-4
POLI SCI 324	Chinese Politics	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
POLI SCI 328	Politics of East and Southeast Asia	3-4
POLI SCI 346	China in World Politics	3-4
SOC 225	Contemporary Chinese Society	3

**CAPSTONE**

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 630	Proseminar: Studies in Cultures of Asia	3

ASIAN 655	Ethnography in Asia	3
ASIAN 682	Senior Honors Thesis (must be enrolled in Honors in the Major)	3
ASIAN 692	Senior Thesis (must have permission from faculty)	3
ASIAN 699	Directed Study (must have permission from faculty)	3
ASIALANG 405	Seventh Semester Korean	3
ASIALANG 406	Eighth Semester Korean	3
ASIALANG 421	Seventh Semester Asian Language	3-4
ASIALANG 422	Eighth Semester Asian Language	3-4
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3

**NAMED OPTIONS**

View as listView as grid

- ASIAN LANGUAGES AND CULTURES: EAST ASIAN STUDIES (P. 451)
- ASIAN LANGUAGES AND CULTURES: SOUTH ASIAN STUDIES (P. 452)
- ASIAN LANGUAGES AND CULTURES: SOUTHEAST ASIAN STUDIES (P. 454)

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all ASIAN, ASIALANG, and approved courses for the major
- 2.000 GPA in 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in the major, taken in residence

**HONORS IN THE MAJOR**

Students may declare Honors in the Major in consultation with the Asian Languages & Cultures undergraduate advisor.

**HONORS IN THE MAJOR REQUIREMENTS**

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - ASIAN 699 or any course from the list below when taken for at least 3 credits. This course must be taken before ASIAN 681.

Code	Title	Credits
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 571	Readings in Classical Chinese Literature	1-3

ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 630	Proseminar: Studies in Cultures of Asia	3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 633	Chinese Applied Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN/ RELIG ST 650	Proseminar in Buddhist Thought	2-3
ASIAN 655	Ethnography in Asia	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3

- A two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

## FOOTNOTES

1

Students who test above 4th semester language must still complete a minimum of 32 credits in the major. These students may complete another language sequence or other coursework as approved by the advisor.

2

Intermediate and Advanced level major courses are upper-level.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Broad regional grounding: Understand the variation within and similarities across Asia with reference to historical and contemporary cultural connections (people, societies, languages, literatures, religions, and cultural genres).
2. Multidisciplinary: Become familiar and proficient with multiple perspectives scholars use to study Asia and use them as resources in their own self-reflective thinking.
3. Depth of knowledge: Employ relevant theoretical and methodological approaches to arrive at informed understandings of key issues involving the environment, human rights, cultural practices, structures of power, etc. based on an understanding of the social and cultural ties within Asia as well as between Asia and the rest of the globe.
4. Analytical skills: Critically examine taken-for-granted notions and stereotypes and to inquire into the process of their construction. They will also be able to read, analyze and explain the significance of Asian texts and artifacts (literary, cultural, historical, and popular culture).
5. Language and cultural competence: Manage basic everyday communication needs in at least one Asian language; understand the relationship between language and culture; and understand how to study a new language and culture and how to advance their proficiency as life-long learners.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		4 Quantitative Reasoning A	4
Foreign Language		4 Biological Science Breadth	4
ASIAN 100 (Required Introductory Course)		4 Ethnic Studies	3
Major Breadth: Humanities		3 Foreign Language Course	4
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		4 Science Breadth	4
Physical Science Breadth		3 Communication B	3
Intermediate Language Course		4 Intermediate Language Course	4
Major Breadth: Humanities		3 Major Breadth: Social Science	4



INTER-LS 210	1		
	<b>15</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Literature Breadth	3	Literature Breadth	3
Science Breadth	3	Major Breadth: Social Science Course	4
Social Science Breadth	4	Electives	4
Electives	6	Advanced Foreign Language (Optional)	3
	<b>16</b>		<b>14</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Major Breadth: Social Science Course	3	Capstone Course (Major Requirement)	3
ASIAN 681 or 691 (Optional)	3	ASIAN 682 or 692 (Optional)	3
Major Breadth: Humanities Course	3	Electives	9
Electives	6		
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE****FACULTY & STAFF**

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

**WISCONSIN EXPERIENCE****UNDERGRADUATE RESEARCH**

Students in the Asian Languages and Cultures (ALC) department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

**WISCONSIN SUMMER LANGUAGE INSTITUTES**

Each summer around 200 undergraduate students, graduate students, professionals, and others come to UW-Madison to study a language at the Wisconsin Intensive Summer Language Institutes (WISLI) (<https://wisli.wisc.edu/>). WISLI is host to five summer language institutes which offer high-quality courses in 30 less commonly taught languages:

Arabic, Persian, and Turkish Language Immersion Institute (APTLII) (<https://aptili.wisc.edu/>)  
 Central Eurasian Studies Summer Institute (CESSI) (<https://cessi.wisc.edu/>)

South Asia Summer Language Institute (SASLI) (<https://sasli.wisc.edu/>)  
 Southeast Asian Studies Summer Institute (SEASSI) (<https://seassi.wisc.edu/>)

## STUDY ABROAD & INTERNSHIPS

The University of Wisconsin–Madison is ranked #2 for semester-long study abroad participation among all US institutions, and #16 among all US universities and colleges for total students studying abroad, according to the 2018 Open Doors Report (<https://www.iie.org/en/Why-IIE/Announcements/2018/11/2018-11-13-Number-of-International-Students-Reaches-New-High/>). There are nearly 60 study abroad opportunities across Asia. Approved UW–Madison programs will allow students to receive residents credit while abroad. With pre-planning, students may also fulfill major requirements on academic programs abroad, however careful planning and discussion with your advisor are key. For more information about programs, application process, and fees, visit: International Academic Programs (<https://www.studyabroad.wisc.edu/>).

Students may also gain career and professional experience through various internship opportunities abroad. To review opportunities, application process, and fees, visit: International Internship Programs (<http://internships.international.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

### CAMPUS RESOURCES

Foreign Language & Area Studies (FLAS) Fellowships (<https://flas.wisc.edu/>)

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>)  
 This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership–activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process

- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central and Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)). Undergraduates with questions about the Boren Scholarship (<https://www.borenawards.org/scholarships/program-basics/boren-scholarship-basics/>) should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs.

Critical Language Scholarship Program (<http://www.clscholarship.org/>)

Campus Representative: Mark Lilleleht, Assistant Director for Awards, at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

The Critical Language Scholarship (CLS) Program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds, and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities, are encouraged to apply.

### Gilman Scholarship Program

Campus Representative: Andy Quackenbush ([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu)), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

# ASIAN LANGUAGES AND CULTURES: EAST ASIAN STUDIES

## East Asia

The East Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of China, Japan, Korea and Tibet. Students in the East Asian option can study Chinese, Japanese, Korean or Tibetan language and linguistics; and explore Chinese ghost stories and classical Chinese literature or poetry; Korean cinema and pop culture; classical Japanese fiction; early modern comedic narratives, manga, anime and counterculture. ALC faculty and instructors offering courses in this option include: C. D'Etcheverry, A. Detwyler, N. Geyer, R. Huntington, A. Kern, H. Kim, B. Lim, J. Mori, T. Nakakubo, S. Ridgely, H. Zhang, W. Zhu.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://southasia.wisc.edu/>); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE EAST ASIAN OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the East Asian Option:

#### EAST ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 201 & ASIALANG 202	Third Semester Chinese and Fourth Semester Chinese	8
ASIALANG 203 & ASIALANG 204	Third Semester Japanese and Fourth Semester Japanese	8
ASIALANG 205 & ASIALANG 206	Third Semester Korean and Fourth Semester Korean	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8

#### EAST ASIAN STUDIES BREADTH

##### East Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		

ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN 253	Japanese Popular Culture	3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN 371	Topics in Chinese Literature	2-3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 375	Survey of Chinese Film	3
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 433	Topics in East Asian Visual Cultures	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIALANG 311	First Semester Classical Chinese	3
ASIALANG 312	Second Semester Classical Chinese	3
ASIALANG 313	Classical Japanese	3
ART HIST 203	Survey of Asian Art	3-4
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST 372	Arts of Japan	3-4
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST 475	Japanese Ceramics and Allied Arts	3
LITTRANS 261	Survey of Chinese Literature in Translation	3
LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 263	Survey of Japanese Literature in Translation	3
LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 373	Topics in Japanese Literature	3
LITTRANS 374	Topics in Korean Literature	3

East Asian Studies Social Science		
Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/ HISTORY 103	Introduction to East Asian History: China	3-4
ASIAN/ HISTORY 104	Introduction to East Asian History: Japan	3-4
ASIAN/ HISTORY 108	Introduction to East Asian History - Korea	3-4
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2
ASIAN 301	Social Studies Topics in East Asian Studies	1-3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/ HISTORY 335	The Koreas: Korean War to the 21st Century	3-4
ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ASIAN/ HISTORY 363	China and World War II in Asia	3-4
ASIAN/ HISTORY 454	Samurai: History and Image	3-4
ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
GEOG 340	World Regions in Global Context	3
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY 340	Cultural History of Korea	3-4
POLI SCI 324	Chinese Politics	3-4
POLI SCI 328	Politics of East and Southeast Asia	3-4
POLI SCI 346	China in World Politics	3-4
SOC 225	Contemporary Chinese Society	3

### EAST ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 571	Readings in Classical Chinese Literature	1-3

ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 401	Seventh Semester Chinese	3
ASIALANG 402	Eighth Semester Chinese	3
ASIALANG 405	Seventh Semester Korean	3
ASIALANG 406	Eighth Semester Korean	3
ASIALANG 451	Advanced Readings in Japanese	3
ASIALANG 452	Advanced Japanese through Audio-Visual Media	3
ASIALANG 454	Advanced Chinese through Media	3
ASIALANG 475	Advanced Topics in Asian Translation	3

### FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the East Asian Studies Named Option will focus on that region.

## ASIAN LANGUAGES AND CULTURES: SOUTH ASIAN STUDIES

### South Asia

The South Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka, and Tibet. Students in the South Asian option can study Hindi, Persian, Sanskrit, Tibetan, or Urdu language; and probe the roots of Yoga; methods of Buddhist philosophy and meditation; South Asian religion and politics in the past and present of the Indian subcontinent; and medical history in South Asia. ALC faculty and instructors offering courses in this option include: F. Asif, G. Bühnemann, S. Beckham, A. Cerulli, S. Farsi, J. Dunne, J. Khedup, N. Tiwari.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://>

southasia.wisc.edu/); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE SOUTH ASIAN STUDIES OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the South Asian Option:

#### SOUTH ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 233 & ASIALANG 234	Third Semester Hindi and Fourth Semester Hindi	8
ASIALANG 237 & ASIALANG 238	Third Semester Persian and Fourth Semester Persian	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
ASIALANG 239 & ASIALANG 240	Third Semester Urdu and Fourth Semester Urdu	8
ASIALANG 241 & ASIALANG 242	Third Semester Sanskrit and Fourth Semester Sanskrit	8

#### SOUTH ASIAN STUDIES BREADTH

##### South Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/RELIG ST 206	The Qur'an: Religious Scripture & Literature	3
ASIAN/RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/RELIG ST 274	Religion in South Asia	3
ASIAN/RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN 311	Modern Indian Literatures	3
ASIAN/AFRICAN/RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN/ART HIST 379	Cities of Asia	3
ASIAN/RELIG ST 405	Gods and Goddesses of South Asia	3

ASIAN/ART HIST 428	Visual Cultures of India	3
ASIAN/RELIG ST 430	Indian Traditions in the Modern Age	3
ASIAN/COM ARTS 443	Indian Cinema and Beyond	3
ASIAN/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ASIAN/RELIG ST 460	The History of Yoga	3
ASIAN/HISTORY 463	Topics in South Asian History	3
ASIAN/RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3
ASIAN/RELIG ST 466	Buddhist Thought	3
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ART HIST 203	Survey of Asian Art	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST/RELIG ST 373	Great Cities of Islam	3

#### South Asian Studies Social Science

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 252	Contemporary Indian Society	4
ASIAN/RELIG ST 306	Hinduism	3
ASIAN/HISTORY/RELIG ST 308	Introduction to Buddhism	3-4
POLI SCI 323	Islam and World Politics	3-4
POLI SCI/INTL ST 327	Indian Politics in Comparative Perspective	3

#### SOUTH ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN/ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 655	Ethnography in Asia	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 699	Directed Study	2-3
ASIALANG 653	Advanced Readings in Hindi Language	3
ASIALANG 675	Advanced Readings in Sanskrit	3
ASIALANG 677	Advanced Readings in Tibetan	3

## FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the South Asian Studies Named Option will focus on that region.

## ASIAN LANGUAGES AND CULTURES: SOUTHEAST ASIAN STUDIES

### Southeast Asia

The Southeast Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, and Vietnam. Students in the Southeast Asian option can study Burmese, Filipino, Hmong, Indonesian, Khmer, Thai and Vietnamese language; and probe Human rights in Thailand; explore literature of the region; and history and politics in Southeast Asia. ALC faculty and instructors offering courses in this option include: E. Barnard, T. Haberkorn, C. Lee, J. Surasin, S. Suryani, H. Dinh, S. Zamar.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://southasia.wisc.edu/>); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE SOUTHEAST ASIAN OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the Southeast Asian Option:

### SOUTHEAST ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 243 & ASIALANG 244	Third Semester Burmese and Fourth Semester Burmese	8
ASIALANG 229 & ASIALANG 230	Third Semester Thai and Fourth Semester Thai	8
ASIALANG 223 & ASIALANG 224	Third Semester Filipino and Fourth Semester Filipino	8
ASIALANG 225 & ASIALANG 226	Third Semester Hmong and Fourth Semester Hmong	8

ASIALANG 227 & ASIALANG 228	Third Semester Indonesian and Fourth Semester Indonesian	8
ASIALANG 245 & ASIALANG 246	Third Semester Khmer and Fourth Semester Khmer	8
ASIALANG 231 & ASIALANG 232	Third Semester Vietnamese and Fourth Semester Vietnamese	8

### SOUTHEAST ASIAN STUDIES BREADTH

#### Southeast Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/AFRICAN/RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN/ART HIST 379	Cities of Asia	3
ASIAN 403	Southeast Asian Literature	3
ASIAN/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ART HIST 203	Survey of Asian Art	3-4
DANCE/FOLKLORE/THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/THEATRE 421	Javanese Performance Repertory	2
ENVIR ST/HIST SCI/RELIG ST 356	Islam, Science & Technology, and the Environment	3-4

#### Southeast Asian Studies Social Science

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/GEOG/HISTORY/POLI SCI/SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ASIAN/ASIAN AM/HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN/HISTORY/RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/HISTORY 319	The Vietnam Wars	3-4
ASIAN/HISTORY/RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
ASIAN/HISTORY 458	History of Southeast Asia Since 1800	3-4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
ANTHRO 350	Political Anthropology	3-4
GEOG 340	World Regions in Global Context	3
GEOG 358	Human Geography of Southeast Asia	3

POLI SCI 323	Islam and World Politics	3-4
POLI SCI 328	Politics of East and Southeast Asia	3-4

## SOUTHEAST ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN/ RELIG ST 650	Proseminar in Buddhist Thought	2-3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3

## FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the Southeast Asian Studies Named Option will focus on that region.

## ASIAN LANGUAGES AND CULTURES, B.S.

The 21st century has been called the “Asian Century”: indeed, many of the world’s most pressing issues cannot be understood without a grasp of the histories, cultures, and languages of Asia. Asia is home to over half of the world’s population. China, Japan, and India are three of the world’s top economies. For decades Asian countries have been leaders in global manufacturing, and Asian universities are renowned centers for literary studies and scientific innovation. Fifty percent of the declared nuclear-weapon states are also in the region. Simply put, Asia matters a great deal.

The Department of Asian Languages and Cultures offers a wide variety of courses on East, South, and Southeast Asia taught by faculty who are specialists in their regions and disciplines. Whether you are taking your first step toward learning about Asia or you bring some background experience, an ALC major will expand your ability to think and work across cultural and linguistic boundaries. Majors may opt to study Asia in a transnational and transhistorical perspective or in a more focused course of study by choosing one of our named options in East Asia, South Asia, and Southeast Asia.

To take advantage of the Department of Asian Languages and Cultures’ many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the Certificate in Global Health, the Certificate in Health and the Humanities, or those offered by the area studies centers.

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC undergraduate advisor is especially important.

### East Asia

The East Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of China, Japan, Korea and Tibet. Students in the East Asian option can study Chinese, Japanese, Korean or Tibetan language and linguistics; and explore Chinese ghost stories and classical Chinese literature or poetry; Korean cinema and pop culture; classical Japanese fiction; early modern comedic narratives, manga, anime, and counterculture.

### South Asia

The South Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka, and Tibet. Students in the South Asian option can study Hindi, Persian, Sanskrit, Tibetan, or Urdu language; the roots of Yoga; methods of Buddhist philosophy and meditation; South Asian religion and politics in the past and present of the Indian subcontinent; and medical history in South Asia.

### Southeast Asia

The Southeast Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, and Vietnam. Students in the Southeast Asian option can study Burmese, Filipino, Hmong, Indonesian, Khmer, Thai, and Vietnamese language; Human rights in Thailand; literature of the region; and history and politics in Southeast Asia.

## HOW TO GET IN

### PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Chinese, Filipino, Hindi, Hmong, Indonesian, Japanese, Korean, Persian, Thai, Tibetan, Urdu, and Vietnamese. For more information, see the department’s website (<https://alc.wisc.edu/languages/placement-tests-2/>).

### DECLARING THE MAJOR

Declaring the major is as easy as meeting with the undergraduate advisor, make an appointment to review requirements and discuss course plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

Students may declare the major prior to completing the requisite language courses (1st and 2nd semester).

The Asian Languages and Cultures major has three named options. Students who intend to declare a named option may not be declared in a certificate program focused on the same region. Students may not combine the following programs:

- East Asian Studies named option and the Certificate in East Asian Studies
- South Asian Studies named option and the Certificate in South Asian Studies
- Southeast Asian Studies named option and the Certificate in Southeast Asian Studies

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Students must take 32 credits as follows:<sup>1</sup>

#### INTRODUCTORY COURSE

Code	Title	Credits
Required course:		
ASIAN 100	Gateway to Asia: Special Topics	3–4

#### INTERMEDIATE LANGUAGE COURSEWORK

Complete one pair of courses (8 credits):<sup>1</sup>

Code	Title	Credits
<b>East Asian languages</b>		
ASIALANG 201 & ASIALANG 202	Third Semester Chinese and Fourth Semester Chinese	8
ASIALANG 203 & ASIALANG 204	Third Semester Japanese and Fourth Semester Japanese	8
ASIALANG 205 & ASIALANG 206	Third Semester Korean and Fourth Semester Korean	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
<b>South Asian languages</b>		
ASIALANG 233 & ASIALANG 234	Third Semester Hindi and Fourth Semester Hindi	8
ASIALANG 237 & ASIALANG 238	Third Semester Persian and Fourth Semester Persian	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
ASIALANG 239 & ASIALANG 240	Third Semester Urdu and Fourth Semester Urdu	8
ASIALANG 241 & ASIALANG 242	Third Semester Sanskrit and Fourth Semester Sanskrit	8
<b>Southeast Asian languages</b>		
ASIALANG 243 & ASIALANG 244	Third Semester Burmese and Fourth Semester Burmese	8



ASIALANG 229 & ASIALANG 230	Third Semester Thai and Fourth Semester Thai	8
ASIALANG 223 & ASIALANG 224	Third Semester Filipino and Fourth Semester Filipino	8
ASIALANG 225 & ASIALANG 226	Third Semester Hmong and Fourth Semester Hmong	8
ASIALANG 227 & ASIALANG 228	Third Semester Indonesian and Fourth Semester Indonesian	8
ASIALANG 245 & ASIALANG 246	Third Semester Khmer and Fourth Semester Khmer	8
ASIALANG 231 & ASIALANG 232	Third Semester Vietnamese and Fourth Semester Vietnamese	8

## ASIAN STUDIES CONTENT COURSEWORK HUMANITIES

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/ RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN 253	Japanese Popular Culture	3
ASIAN 254		3
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/ RELIG ST 274	Religion in South Asia	3
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN 311	Modern Indian Literatures	3
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 357	Japanese Ghost Stories	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN 371	Topics in Chinese Literature	3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 374		3
ASIAN 375	Survey of Chinese Film	3
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN/ ART HIST 379	Cities of Asia	3

ASIAN 403	Southeast Asian Literature	3
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	3
ASIAN/ ART HIST 428	Visual Cultures of India	3
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 433	Topics in East Asian Visual Cultures	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN/ COM ARTS 443	Indian Cinema and Beyond	3
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ASIAN/ RELIG ST 460	The History of Yoga	3
ASIAN/ HISTORY 463	Topics in South Asian History	3
ASIAN/ RELIG ST 466	Buddhist Thought	3
ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ASIALANG 311	First Semester Classical Chinese	3
ASIALANG 312	Second Semester Classical Chinese	3
ASIALANG 313	Classical Japanese	3
ASIALANG 315	First Semester Classical Chinese for Chinese Speakers	3
ASIALANG 316	Second Semester Classical Chinese for Chinese Speakers	3
ART HIST 203	Survey of Asian Art	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST 372	Arts of Japan	3-4
ART HIST/ RELIG ST 373	Great Cities of Islam	3
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST 411	Topics in Asian Art	3-4
ART HIST/ ASIAN 428	Visual Cultures of India	3
ART HIST 475	Japanese Ceramics and Allied Arts	3
COM ARTS/ ASIAN 443	Indian Cinema and Beyond	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4	ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
HISTORY 340	Cultural History of Korea	3-4	ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3	ASIAN/ HISTORY 363	China and World War II in Asia	3-4
INTL ST/ HISTORY 332	East Asia & The U.S. Since 1899	3-4	ASIAN/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
LITTRANS 262	Survey of Chinese Literature in Translation	3	ASIAN/ HISTORY 454	Samurai: History and Image	3-4
or ASIAN 352	Survey of Modern Chinese Literature		ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
LITTRANS 261	Survey of Chinese Literature in Translation	3	ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	3-4
LITTRANS 263	Survey of Japanese Literature in Translation	3	ASIAN AM 170	Hmong American Experiences in the United States	3
LITTRANS 264	Survey of Japanese Literature in Translation	3	ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
or ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature		ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3
LITTRANS 368	Modern Japanese Fiction	3	A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
LITTRANS 373	Topics in Japanese Literature	3	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
LITTRANS 374	Topics in Korean Literature	3	GEOG 340	World Regions in Global Context	3

## SOCIAL SCIENCE

Code	Title	Credits	Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>					
ASIAN/ HISTORY 103	Introduction to East Asian History: China	3-4	GEOG 358	Human Geography of Southeast Asia	3
ASIAN/ HISTORY 104	Introduction to East Asian History: Japan	3-4	HISTORY 142	History of South Asia to the Present	3-4
ASIAN/ HISTORY 108	Introduction to East Asian History - Korea	3-4	HISTORY 144	Traveling the World: South Asians in Diaspora	4
ASIAN/COUN PSY/ ED PSYCH/ PSYCH 120	The Art and Science of Human Flourishing	3	HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
ASIAN 252	Contemporary Indian Society	4	HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4	HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	3-4
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2	HISTORY 450	Making of Modern South Asia	3-4
ASIAN 301	Social Studies Topics in East Asian Studies	3	HISTORY 457	History of Southeast Asia to 1800	3-4
ASIAN/ RELIG ST 306	Hinduism	3	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4	POP HLTH 640	Foundations in Global Health Practice	1
ASIAN/HISTORY 319	The Vietnam Wars	3-4	POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease	1
ASIAN/ HISTORY 335	The Koreas: Korean War to the 21st Century	3-4	POLI SCI 322	Politics of Southeast Asia	3-4
ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4	POLI SCI 323	Islam and World Politics	3-4
			POLI SCI 324	Chinese Politics	3-4
			POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
			POLI SCI 328	Politics of East and Southeast Asia	3-4
			POLI SCI 346	China in World Politics	3-4
			SOC 225	Contemporary Chinese Society	3

## CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 630	Proseminar: Studies in Cultures of Asia	3
ASIAN 655	Ethnography in Asia	3
ASIAN 682	Senior Honors Thesis (must be enrolled in Honors in the Major)	3
ASIAN 692	Senior Thesis (must have permission from faculty)	3
ASIAN 699	Directed Study (must have permission from faculty)	3
ASIALANG 405	Seventh Semester Korean	3
ASIALANG 406	Eighth Semester Korean	3
ASIALANG 421	Seventh Semester Asian Language	3-4
ASIALANG 422	Eighth Semester Asian Language	3-4
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3

## NAMED OPTIONS

View as listView as grid

- ASIAN LANGUAGES AND CULTURES: EAST ASIAN STUDIES (P. 451)
- ASIAN LANGUAGES AND CULTURES: SOUTH ASIAN STUDIES (P. 452)
- ASIAN LANGUAGES AND CULTURES: SOUTHEAST ASIAN STUDIES (P. 454)

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ASIAN, ASIALANG, and approved courses for the major
- 2.000 GPA in 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in the major, taken in residence

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Asian Languages & Cultures undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - ASIAN 699 or any course from the list below when taken for at least 3 credits. This course must be taken before ASIAN 681.

Code	Title	Credits
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 571	Readings in Classical Chinese Literature	1-3
ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 630	Proseminar: Studies in Cultures of Asia	3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 633	Chinese Applied Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN/ RELIG ST 650	Proseminar in Buddhist Thought	2-3
ASIAN 655	Ethnography in Asia	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3

- A two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

## FOOTNOTES

1

Students who test above 4th semester language must still complete a minimum of 32 credits in the major. These students may complete another language sequence or other coursework as approved by the advisor.

2

Intermediate and Advanced level major courses are upper-level.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Broad regional grounding: Understand the variation within and similarities across Asia with reference to historical and contemporary cultural connections (people, societies, languages, literatures, religions, and cultural genres).
2. Multidisciplinarity: Become familiar and proficient with multiple perspectives scholars use to study Asia and use them as resources in their own self-reflective thinking.
3. Depth of knowledge: Employ relevant theoretical and methodological approaches to arrive at informed understandings of key issues involving the environment, human rights, cultural practices, structures of power, etc. based on an understanding of the social and cultural ties within Asia as well as between Asia and the rest of the globe.
4. Analytical skills: Critically examine taken-for-granted notions and stereotypes and to inquire into the process of their construction. They will also be able to read, analyze and explain the significance of Asian texts and artifacts (literary, cultural, historical, and popular culture).
5. Language and cultural competence: Manage basic everyday communication needs in at least one Asian language; understand the relationship between language and culture; and understand how to study a new language and culture and how to advance their proficiency as life-long learners.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A	4	Quantitative Reasoning A	4
Foreign Language	4	Biological Science Breadth	4
ASIAN 100 (Required Introductory Course)	4	Ethnic Studies	3

Major Breadth: Humanities	3 Foreign Language Course	4
		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B	4	Science Breadth	4
Physical Science Breadth	3	Communication B	3
Intermediate Language Course	4	Intermediate Language Course	4
Major Breadth: Humanities	3	Major Breadth: Social Science	4
INTER-LS 210	1		
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Literature Breadth	3	Literature Breadth	3
Science Breadth	3	Major Breadth: Social Science Course	4
Social Science Breadth	4	Electives	4
Electives	6	Advanced Foreign Language (Optional)	3
		<b>16</b>	<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Major Breadth: Social Science Course	3	Capstone Course (Major Requirement)	3
ASIAN 681 or 691 (Optional)	3	ASIAN 682 or 692 (Optional)	3
Major Breadth: Humanities Course	3	Electives	9
Electives	6		
		<b>15</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

## FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

## UNDERGRADUATE RESEARCH

Students in the ALC department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)

- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## WISCONSIN SUMMER LANGUAGE INSTITUTES

Each summer around 200 undergraduate students, graduate students, professionals, and others come to UW-Madison to study a language at the Wisconsin Intensive Summer Language Institutes (WISLI) (<https://wisli.wisc.edu/>). WISLI is host to five summer language institutes which offer high-quality courses in 30 less commonly taught languages:

- Arabic, Persian, and Turkish Language Immersion Institute (APTII) (<https://aptlii.wisc.edu/>)
- Central Eurasian Studies Summer Institute (CESSI) (<https://cessi.wisc.edu/>)
- South Asia Summer Language Institute (SASLI) (<https://sasli.wisc.edu/>)
- Southeast Asian Studies Summer Institute (SEASSI) (<https://seassi.wisc.edu/>)

## STUDY ABROAD

The University of Wisconsin-Madison is ranked #2 for semester-long study abroad participation among all US institutions, and #16 among all US universities and colleges for total students studying abroad, according to the 2018 Open Doors Report (<https://www.iie.org/en/Why-IIE/Announcements/2018/11/2018-11-13-Number-of-International-Students-Reaches-New-High/>). There are nearly 60 study abroad opportunities across Asia. Approved UW-Madison programs will allow students to receive residents credit while abroad. With pre-planning, students may also fulfill major requirements on academic programs abroad, however careful planning and discussion with your advisor are key. For more information about programs, application process, and fees, visit: International Academic Programs (<https://www.studyabroad.wisc.edu/>).

Students may also gain career and professional experience through various internship opportunities abroad. To review opportunities, application process, and fees, visit: International Internship Programs (<http://internships.international.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

## CAMPUS RESOURCES

Foreign Language & Area Studies (FLAS) Fellowships (<https://flas.wisc.edu/>)

Center for East Asian Studies FLAS Coordinator: Laurie Dennis, [ldennis@wisc.edu](mailto:ldennis@wisc.edu) ([ldennis@international.wisc.edu](mailto:ldennis@international.wisc.edu)), 325 Ingraham Hall

Center for South Asian FLAS Coordinator: Sarah Beckham, [associatedirector@southasia.wisc.edu](mailto:associatedirector@southasia.wisc.edu), 203 Ingraham

Center for Southeast Asian Studies FLAS Coordinator: Michael Cullinane, [mmcullin@wisc.edu](mailto:mmcullin@wisc.edu), ([mjstuden@wisc.edu](mailto:mjstuden@wisc.edu)) 207 Ingraham

FLAS fellowships are funded by the US Department of Education and administered by the UW-Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

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Scholarships@UW-Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

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Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW-Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership-activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central and Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)). Undergraduates with questions about the Boren Scholarship (<https://www.borenawards.org/scholarships/program-basics/boren-scholarship-basics/>) should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs.

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Critical Language Scholarship Program (<http://www.clscholarship.org/>)  
Campus Representative: Mark Lilleleht, Assistant Director for Awards at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS

provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds, and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities, are encouraged to apply.

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### Gilman Scholarship Program

Campus Representative: Andy Quackenbush

([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu)), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## ASIAN LANGUAGES AND CULTURES: EAST ASIAN STUDIES

### East Asia

The East Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of China, Japan, Korea and Tibet. Students in the East Asian option can study Chinese, Japanese, Korean or Tibetan language and linguistics; and explore Chinese ghost stories and classical Chinese literature or poetry; Korean cinema and pop culture; classical Japanese fiction; early modern comedic narratives, manga, anime and counterculture. ALC faculty and instructors offering courses in this option include: C. D'Etchevery, A. Detwyler, N. Geyer, R. Huntington, A. Kern, H. Kim, B. Lim, J. Mori, T. Nakakubo, S. Ridgely, H. Zhang, W. Zhu.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://southasia.wisc.edu/>); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE EAST ASIAN OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the East Asian Option:

#### EAST ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 201 & ASIALANG 202	Third Semester Chinese and Fourth Semester Chinese	8
ASIALANG 203 & ASIALANG 204	Third Semester Japanese and Fourth Semester Japanese	8
ASIALANG 205 & ASIALANG 206	Third Semester Korean and Fourth Semester Korean	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8

#### EAST ASIAN STUDIES BREADTH

##### East Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN 253	Japanese Popular Culture	3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN 371	Topics in Chinese Literature	2-3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 375	Survey of Chinese Film	3
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 433	Topics in East Asian Visual Cultures	3

ASIAN 434	Introduction to Japanese Linguistics	3
ASIALANG 311	First Semester Classical Chinese	3
ASIALANG 312	Second Semester Classical Chinese	3
ASIALANG 313	Classical Japanese	3
ART HIST 203	Survey of Asian Art	3-4
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST 372	Arts of Japan	3-4
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST 475	Japanese Ceramics and Allied Arts	3
LITTRANS 261	Survey of Chinese Literature in Translation	3
LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 263	Survey of Japanese Literature in Translation	3
LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 373	Topics in Japanese Literature	3
LITTRANS 374	Topics in Korean Literature	3

##### East Asian Studies Social Science

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/HISTORY 103	Introduction to East Asian History: China	3-4
ASIAN/HISTORY 104	Introduction to East Asian History: Japan	3-4
ASIAN/HISTORY 108	Introduction to East Asian History - Korea	3-4
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	3-4
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2
ASIAN 301	Social Studies Topics in East Asian Studies	1-3
ASIAN/HISTORY/RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/HISTORY 335	The Koreas: Korean War to the 21st Century	3-4
ASIAN/HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
ASIAN/HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ASIAN/HISTORY 363	China and World War II in Asia	3-4
ASIAN/HISTORY 454	Samurai: History and Image	3-4

ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
GEOG 340	World Regions in Global Context	3
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY 340	Cultural History of Korea	3-4
POLI SCI 324	Chinese Politics	3-4
POLI SCI 328	Politics of East and Southeast Asia	3-4
POLI SCI 346	China in World Politics	3-4
SOC 225	Contemporary Chinese Society	3

## EAST ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 571	Readings in Classical Chinese Literature	1-3
ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 401	Seventh Semester Chinese	3
ASIALANG 402	Eighth Semester Chinese	3
ASIALANG 405	Seventh Semester Korean	3
ASIALANG 406	Eighth Semester Korean	3
ASIALANG 451	Advanced Readings in Japanese	3
ASIALANG 452	Advanced Japanese through Audio- Visual Media	3
ASIALANG 454	Advanced Chinese through Media	3
ASIALANG 475	Advanced Topics in Asian Translation	3

## FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the East Asian Studies Named Option will focus on that region.

## ASIAN LANGUAGES AND CULTURES: SOUTH ASIAN STUDIES

### South Asia

The South Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka, and Tibet. Students in the South Asian option can study Hindi, Persian, Sanskrit, Tibetan, or Urdu language; and probe the roots of Yoga; methods of Buddhist philosophy and meditation; South Asian religion and politics in the past and present of the Indian subcontinent; and medical history in South Asia. ALC faculty and instructors offering courses in this option include: F. Asif, G. Bühnemann, S. Beckham, A. Cerulli, S. Farsiu, J. Dunne, J. Khedup, N. Tiwari.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://southasia.wisc.edu/>); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE SOUTH ASIAN STUDIES OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the South Asian Option:

### SOUTH ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 233 & ASIALANG 234	Third Semester Hindi and Fourth Semester Hindi	8
ASIALANG 237 & ASIALANG 238	Third Semester Persian and Fourth Semester Persian	8
ASIALANG 235 & ASIALANG 236	Third Semester Modern Tibetan and Fourth Semester Modern Tibetan	8
ASIALANG 239 & ASIALANG 240	Third Semester Urdu and Fourth Semester Urdu	8



ASIALANG 241 & ASIALANG 242	Third Semester Sanskrit and Fourth Semester Sanskrit	8
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## SOUTH ASIAN STUDIES BREADTH

### South Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature	3
ASIAN/ RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/ RELIG ST 274	Religion in South Asia	3
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN 311	Modern Indian Literatures	3
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN/ ART HIST 379	Cities of Asia	3
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	3
ASIAN/ ART HIST 428	Visual Cultures of India	3
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	3
ASIAN/ COM ARTS 443	Indian Cinema and Beyond	3
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ASIAN/ RELIG ST 460	The History of Yoga	3
ASIAN/ HISTORY 463	Topics in South Asian History	3
ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3
ASIAN/ RELIG ST 466	Buddhist Thought	3
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ART HIST 203	Survey of Asian Art	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST/ RELIG ST 373	Great Cities of Islam	3

### South Asian Studies Social Science

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 252	Contemporary Indian Society	4
ASIAN/ RELIG ST 306	Hinduism	3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
POLI SCI 323	Islam and World Politics	3-4
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3

## SOUTH ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN 655	Ethnography in Asia	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 699	Directed Study	2-3
ASIALANG 653	Advanced Readings in Hindi Language	3
ASIALANG 675	Advanced Readings in Sanskrit	3
ASIALANG 677	Advanced Readings in Tibetan	3

## FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the South Asian Studies Named Option will focus on that region.

## ASIAN LANGUAGES AND CULTURES: SOUTHEAST ASIAN STUDIES

### Southeast Asia

The Southeast Asian Studies named option offers a multidisciplinary range of courses that explore the diverse and vibrant cultures, arts, histories, political systems, and literatures of Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, and Vietnam. Students in the Southeast Asian option can study Burmese, Filipino, Hmong, Indonesian, Khmer, Thai and Vietnamese language; and probe Human rights in Thailand; explore literature of the region; and history and politics in Southeast Asia. ALC faculty and instructors offering courses in this option include: E. Barnard, T. Haberkorn, C. Lee, J. Surasin, S. Suryani, H. Dinh, S. Zamar.

To take advantage of the Department of Asian Languages and Cultures' many relationships with other departments and program units across campus, students may choose to double major or enhance their studies in ALC with one of the certificates offered at the university, such as the

global health certificate, the certificate in health and the humanities, or those offered by the area studies centers: Center for East Asian Studies (<https://eastasia.wisc.edu/>); Center for South Asia (<https://southasia.wisc.edu/>); and Center for Southeast Asian Studies (<https://seasia.wisc.edu/>).

This major is interdisciplinary and offers a wealth of options. Careful planning and consultation with the ALC advisor, is especially important.

## REQUIREMENTS

### REQUIREMENTS FOR THE SOUTHEAST ASIAN OPTION

32 credits to include the Introductory and Residence and Quality of Work requirements of the general major, plus these requirements specific to the Southeast Asian Option:

#### SOUTHEAST ASIAN INTERMEDIATE LANGUAGE

Code	Title	Credits
<b>Complete a sequence:</b>		
ASIALANG 243 & ASIALANG 244	Third Semester Burmese and Fourth Semester Burmese	8
ASIALANG 229 & ASIALANG 230	Third Semester Thai and Fourth Semester Thai	8
ASIALANG 223 & ASIALANG 224	Third Semester Filipino and Fourth Semester Filipino	8
ASIALANG 225 & ASIALANG 226	Third Semester Hmong and Fourth Semester Hmong	8
ASIALANG 227 & ASIALANG 228	Third Semester Indonesian and Fourth Semester Indonesian	8
ASIALANG 245 & ASIALANG 246	Third Semester Khmer and Fourth Semester Khmer	8
ASIALANG 231 & ASIALANG 232	Third Semester Vietnamese and Fourth Semester Vietnamese	8

#### SOUTHEAST ASIAN STUDIES BREADTH

##### Southeast Asian Studies Humanities

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/AFRICAN/RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN/ART HIST 379	Cities of Asia	3
ASIAN 403	Southeast Asian Literature	3
ASIAN/RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ART HIST 203	Survey of Asian Art	3-4

DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2
ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4

#### Southeast Asian Studies Social Science

Code	Title	Credits
<b>Complete 9 credits from the following course options:</b>		
ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/HISTORY 319	The Vietnam Wars	3-4
ASIAN/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	3-4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
ANTHRO 350	Political Anthropology	3-4
GEOG 340	World Regions in Global Context	3
GEOG 358	Human Geography of Southeast Asia	3
POLI SCI 323	Islam and World Politics	3-4
POLI SCI 328	Politics of East and Southeast Asia	3-4

#### SOUTHEAST ASIAN STUDIES CAPSTONE

Code	Title	Credits
<b>Complete one course for at least 3 credits:</b>		
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	3
ASIAN/ RELIG ST 650	Proseminar in Buddhist Thought	2-3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3

## FOUR-YEAR PLAN

See Four Year Plan for the Asian Languages and Cultures Major; course choices for the Southeast Asian Studies Named Option will focus on that region.

# CHINESE PROFESSIONAL COMMUNICATION, CERTIFICATE

The Certificate in Chinese Professional Communication provides students with the opportunity to develop proficiency in Chinese while pursuing majors in other subjects across the university. It emphasizes the development of communication skills that are applicable to various professional contexts that students may encounter in their future careers.

The certificate is open to all undergraduate students (except for those majoring in Chinese). For more information about the Department of Asian Languages and Cultures see the department overview (p. 441).

## STUDY ABROAD IN CHINA

Students may receive residence credit for study abroad through a variety of different programs. Our faculty direct the summer UW Intensive Chinese Language (<https://studyabroad.wisc.edu/program/?programId=154>) program in Tianjin. Students on this intensive language program study Mandarin Chinese over the summer, earning up to a full year's worth of language credits. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various internship opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

## HOW TO GET IN

## PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Chinese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

## DECLARING THE CERTIFICATE

Declaring the certificate is as easy as meeting with the undergraduate advisor and making an appointment to review requirements and discuss course plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>). Students may declare the certificate at any point in their language study.

Students declared in the Chinese major are not eligible to declare the Chinese Professional Communication certificate.

## REQUIRED PREREQUISITE LANGUAGE COURSES

Code	Title	Credits
<b>For non-heritage speakers:</b>		
ASIALANG 101	First Semester Chinese	4
<i>or</i>		
ASIALANG 110 & ASIALANG 111	Elementary Chinese I and Elementary Chinese II	4
<i>and</i>		
ASIALANG 102	Second Semester Chinese	4

ASIALANG 201	Third Semester Chinese	4
ASIALANG 202	Fourth Semester Chinese	4
<b>For heritage Chinese speaking students:</b>		
ASIALANG 211	Heritage Chinese I	3
ASIALANG 212	Heritage Chinese II	3

## REQUIREMENTS

## REQUIREMENTS FOR THE CERTIFICATE

15 credits distributed as follows:

Code	Title	Credits
<b>Business Language Course (required)</b>		
ASIALANG 379	Business Chinese	3
<b>Advanced Chinese Language Courses (complete 3 courses)</b>		
ASIALANG 301	Fifth Semester Chinese	3
ASIALANG 302	Sixth Semester Chinese	
ASIALANG 378	Chinese Conversation	
ASIALANG 454	Advanced Chinese through Media	
ASIALANG 457	Advanced Chinese: Reading and Writing	
<b>Chinese Literature or Humanities Electives (complete one course):</b>		
ASIAN/HISTORY 103	Introduction to East Asian History: China	3
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	
ASIAN 301	Social Studies Topics in East Asian Studies	
ASIAN/HISTORY 337	Social and Intellectual History of China, 589 AD-1919	
ASIAN/HISTORY 341	History of Modern China, 1800-1949	
ASIAN/HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	
ASIAN 351	Survey of Classical Chinese Literature	
ASIAN 352	Survey of Modern Chinese Literature	
ASIAN/HISTORY 363	China and World War II in Asia	
ASIAN 371	Topics in Chinese Literature	
ASIAN 372	Topics in Chinese: Study Abroad	
ASIAN 375	Survey of Chinese Film	
ASIAN 432	Introduction to Chinese Linguistics	
ASIAN 631	History of the Chinese Language	
ASIAN 641	History of Chinese Literature I	
ASIAN 642	History of Chinese Literature II	

ASIAN 671	Literary Studies in Chinese Drama
ASIALANG 311	First Semester Classical Chinese
ASIALANG 312	Second Semester Classical Chinese
ART HIST 203	Survey of Asian Art
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
POLI SCI 324	Chinese Politics
POLI SCI 346	China in World Politics
SOC 225	Contemporary Chinese Society

**Total Credits****15**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 8 certificate credits must be completed in residence

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Explain in the target language their academic and professional experiences, and articulate their career objectives, both in writing and speaking.
2. Manage basic everyday workplace (face-to-face, telephone, and email) communications in the target language (e.g., greeting, introducing oneself, making/changing appointments, making and receiving requests, obtaining permission, reporting, thanking, apologizing).
3. With preparation, deliver a clear, concise, and connected presentation in the target language, with the effective use of visual images, on a subject they researched through online resources and/or interviews.
4. Demonstrate an awareness of the significance of honorific and formulaic expressions and etiquette observed in the workplace within the target culture, which can be applied to their life-long learning.
5. Demonstrate an awareness of diverse cultural perspectives, which may influence business and other professional practices, and a disposition to approach unfamiliar contexts with an open mind.

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with

your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

### UNDERGRADUATE RESEARCH

Students in the Asian Languages and Cultures (ALC) department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate->

research/) that provide research opportunities for undergraduates at UW–Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

### DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our programs. Application information and deadlines (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>).

#### Chinese Language Learners Bridge Fund

Chinese Major Alumni Jarrett Wiesolek (Class of 2011) and Ali Dibble (Class of 2012) launched the Bridge Fund in 2016. CLLBF is designed to award scholarships to students who are passionate about learning Chinese and building bridges between UW–Madison and China.

#### Chou Kuo-p'ing Book Award

Several awards will be given each year to undergraduate students who are studying and will continue to study Chinese during the following semester. This award is made possible through a donation by Professor Emerita Chou Kuo-p'ing, the founder of the Chinese program here at the University of Wisconsin–Madison. Professor Chou, a dedicated teacher, devoted her entire career to teaching, promoting, and developing Chinese studies in Wisconsin. Professor Chou was very active during her teaching career, and often helped financially disadvantaged students, especially those who excelled in their academic careers despite economic difficulties. Although this award is based mainly on the applicant's academic performance, special consideration is given to those who are financially disadvantaged in order to carry on this tradition.

#### Ellen and William E. Fisher Scholarship

Ellen and William E. Fisher have provided funding for an annual scholarship to be awarded to an undergraduate student at UW–Madison who is studying the Chinese language. According to the terms of the gift agreement, the award is based on merit, therefore there is no application, but faculty will make a determination based on students progressing in the program. Mr. Fisher stipulated that the award must be made in the Fall semester, so that the recipient can use it in the Spring semester.

#### Gwang-Tsai Chen Award

Professor Sabina Knight established this scholarship in honor of Gwang-Tsai (Arthur) Chen, Emeritus Professor of East Asian Languages and Literature at UW–Madison. The scholarship recognizes a rising undergraduate Chinese major. Student eligibility: must be a non-heritage language learner, freshman or sophomore standing, a GPA above 3.5.

#### Lawrence Louey Merit Scholarship

The Lawrence Louey Merit Scholarship is an annual competition recognizing an undergraduate Chinese major in the Department of Asian

Languages and Cultures. Eligibility: You must be a graduating senior with a GPA above 3.75 and have taken at least three years of Chinese. An application is required for consideration, including a brief career plan, as well as a research paper from one of your major field courses.

## CAMPUS RESOURCES

### Foreign Language & Area Studies (FLAS) Fellowships

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, [ldennis@wisc.edu](mailto:ldennis@wisc.edu) ([ldennis@international.wisc.edu](mailto:ldennis@international.wisc.edu)), 325 Ingraham Hall

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership–activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<https://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an

appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)  
Campus Representative: Mark Lilleleht, Assistant Director for Awards at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

#### Gilman Scholarship Program

Campus Representative: Andy Quackenbush ([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu)), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## CHINESE, B.A.

The Chinese program offers students a range of courses and activities which impart an understanding of the culture and civilization of China. With the completion of three years of the language, students will be prepared to handle various types of colloquial Chinese. Most majors pursue advanced studies in Chinese linguistics or literature, while others combine an interest in China with a degree in business, education, engineering or journalism.

Visit our website (<https://alc.wisc.edu/undergraduate-studies/undergraduate-studies-in-chinese/>) for more information about the undergraduate studies in Chinese.

## STUDY ABROAD IN CHINA

Students may receive residence credit for study abroad through a variety of different programs. Our faculty direct the summer UW Intensive Chinese Language (<https://studyabroad.wisc.edu/program/?programId=154>) program in Tianjin. Students on this intensive language program study Mandarin Chinese over the summer, earning up to a full year's worth of language credits. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various internship opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

## STARTING COURSEWORK TOWARD THE MAJOR

Students may declare the Chinese major at any time. Before declaring the major, students may begin coursework to explore the language and fields of interest. Those students who have studied Chinese prior to coming to UW–Madison will have to take a placement test (<https://alc.wisc.edu/placement-tests/>) to determine the best class to enroll in on campus.

### HOW TO GET IN

## PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Chinese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

## DECLARING THE MAJOR

Declaring the major is as easy as meeting with the undergraduate advisor, make an appointment to review requirements and discuss course plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

Students declared in the Chinese Professional Communication certificate may not be declared in the Chinese major at the same time. Students who do wish to declare the Chinese major must first cancel their declaration in the Chinese Professional Communication certificate.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

# COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Prerequisites: First &amp; Second Year Language</b>		
<i>First Semester Chinese (complete one):</i>		
ASIALANG 101	First Semester Chinese	4

ASIALANG 110 & ASIALANG 111	Elementary Chinese I and Elementary Chinese II	
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*Followed by (complete all):*

ASIALANG 102	Second Semester Chinese	4
ASIALANG 201	Third Semester Chinese	4
ASIALANG 202	Fourth Semester Chinese	4

*Sequence for Heritage Speakers*

ASIALANG 211 & ASIALANG 212	Heritage Chinese I and Heritage Chinese II	
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### Required Language Course

ASIALANG 301	Fifth Semester Chinese	4
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### Advanced or Specialized Language Courses (3 courses):

ASIALANG 302	Sixth Semester Chinese	
ASIALANG 311	First Semester Classical Chinese	
ASIALANG 312	Second Semester Classical Chinese	
ASIALANG 378	Chinese Conversation	
ASIALANG 379	Business Chinese	
ASIALANG 401	Seventh Semester Chinese	
ASIALANG 402	Eighth Semester Chinese	
ASIALANG 454	Advanced Chinese through Media	
ASIALANG 457	Advanced Chinese: Reading and Writing	

### Chinese Culture, Linguistics, and Literature

*Introductory Course (complete one):*

ASIAN 100	Gateway to Asia: Special Topics	3
ASIAN/HISTORY 103	Introduction to East Asian History: China	
ASIAN 203	Lost in Translation: Western Experience in Asia	
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	
ART HIST 203	Survey of Asian Art	
LITTRANS 261	Survey of Chinese Literature in Translation	
LITTRANS 262	Survey of Chinese Literature in Translation	
SOC 225	Contemporary Chinese Society	

*Intermediate Courses (complete three courses):*

ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	9
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ASIAN/RELIG ST 307	A Survey of Tibetan Buddhism	
ASIAN 351	Survey of Classical Chinese Literature	
ASIAN 352	Survey of Modern Chinese Literature	

ASIAN/ HISTORY 363	China and World War II in Asia	
ASIAN 371	Topics in Chinese Literature	
ASIAN 372	Topics in Chinese: Study Abroad	
ASIAN 375	Survey of Chinese Film	
ASIAN 432	Introduction to Chinese Linguistics	
ASIALANG 311	First Semester Classical Chinese	
ASIALANG 312	Second Semester Classical Chinese	
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	
ASIAN/ HISTORY 341	History of Modern China, 1800-1949	
ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	
POLI SCI 324	Chinese Politics	
POLI SCI 346	China in World Politics	
<i>Advanced Course (complete one):</i>		3
ASIAN 571	Readings in Classical Chinese Literature	
ASIAN 631	History of the Chinese Language	
ASIAN 641	History of Chinese Literature I	
ASIAN 642	History of Chinese Literature II	
ASIAN 671	Literary Studies in Chinese Drama	
ASIAN 672	Studies in Chinese Fiction	
ASIAN 681	Senior Honors Thesis	
ASIAN 682	Senior Honors Thesis	
ASIAN 691	Senior Thesis	
ASIAN 692	Senior Thesis	
ASIAN 698	Directed Study	
ASIAN 699	Directed Study	
THEATRE 526	The Theatres of China and Japan	

**Total Credits** **44**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, in residence
- 15 credits in the major, taken on campus

### Upper-level courses in the major:

Code	Title	Credits
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3

ASIAN/ HISTORY 363	China and World War II in Asia	3-4
ASIAN 371	Topics in Chinese Literature	3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 375	Survey of Chinese Film	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 571	Readings in Classical Chinese Literature	1-3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 301	Fifth Semester Chinese	4
ASIALANG 302	Sixth Semester Chinese	4
ASIALANG 311	First Semester Classical Chinese	3
ASIALANG 312	Second Semester Classical Chinese	3
ASIALANG 378	Chinese Conversation	3
ASIALANG 379	Business Chinese	3
ASIALANG 401	Seventh Semester Chinese	3
ASIALANG 402	Eighth Semester Chinese	3
ASIALANG 454	Advanced Chinese through Media	3
ASIALANG 457	Advanced Chinese: Reading and Writing	3
ASIALANG 475	Advanced Topics in Asian Translation	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
E A STDS 337		3-4
E A STDS 341		3-4
E A STDS 342		3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
POLI SCI 324	Chinese Politics	3-4
POLI SCI 346	China in World Politics	3-4

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Chinese undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:



- Earn a 3.300 University GPA
- Earn a 3.300 for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - ASIAN 699 or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before ASIAN 681.
  - A two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
ASIALANG 101		4 ASIALANG 102	4
ASIAN 100 ( Humanities Breadth)	3-4	ASIAN/ASIAN AM/ HISTORY 246 (meets Ethnic Studies requirement)	4
Communication A	3	Quantitative Reasoning A	3-4
Biological Science Breadth	3	Science Breadth	3
		Students beginning language study this term may start with:	
		ASIALANG 110	
	<b>14</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ASIALANG 201 or 111		4 ASIALANG 202 or 102	4
Or students continue with:		ASIAN/RELIG ST 236 (Communication B)	3
ASIALANG 111		ASIAN 203 (Humanities Breadth)	3
ASIAN/HISTORY/ POLI SCI 255 (Social Science Breadth)	3-4	Physical Science Breadth	3
ASIAN/HISTORY/ RELIG ST 267 (Humanities Breadth)	3-4	Elective	3
Quantitative Reasoning B	3-4		
	<b>14</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
ASIALANG 301 or 201		4 ASIALANG 302 or 202	4
ASIALANG 311	3	ASIALANG 379	3
ASIAN/HISTORY 342 (Social Science Breadth)	3-4	ASIAN 352 (Literature Breadth)	3
ASIAN 371	3	ASIAN 699	2-3
Science Breadth	3	Elective	3
	<b>16</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
ASIALANG 301 (if needed)	4	ASIALANG 302 (if needed)	4
ASIALANG 378	3	ASIAN 641	3
ASIAN 375	3	ASIAN 682 or 692	3
ASIAN 631	3	Electives	3-7
ASIAN 681 or 691	3		
Elective	0-4		
<b>16</b>		<b>13</b>	

**Total Credits 120****THREE-YEAR PLAN****SAMPLE THREE-YEAR PLAN**

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

**DEPARTMENTAL EXPECTATIONS**

Students planning to graduate within three years with a Chinese major should enter the University with a minimum of 26 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- First year Chinese (ASIALANG 101 and ASIALANG 102) – All students are required to take a placement test in Chinese to assess their prior experience in the language. Students should register for a date (<https://alc.wisc.edu/languages/placement-tests-2/>) prior to their SOAR visit.
- Communication Part A
- Quantitative Reasoning Part A
- 6 combined credits of Biological, Natural, or Physical Science

**First Year**

Fall	Credits	Spring	Credits
ASIALANG 201	4	ASIALANG 202	4
ASIAN/HISTORY/ POLI SCI 255	4	ASIAN/RELIG ST 236 (meets Communication B)	3
Quantitative Reasoning B	4	ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244 (meets Ethnic Studies requirement)	4

Biological Science Breadth	4	Physical Science Breadth	4
<b>16</b>		<b>15</b>	

**Total Credits 31****SUMMER ONE [OPTIONAL]**

Summer terms present an opportunity for students to make progress toward remaining L&S Breadth and General Education Requirements. Other options for academic enrichment or career exploration might include study abroad (<https://studyabroad.wisc.edu/>) or international internships (<https://internships.international.wisc.edu/>).

UW Intensive Chinese Language in Tianjin Study Abroad (<https://studyabroad.wisc.edu/program/?programId=154>) Session I or II or Both

**Total Credits: 4-8****Second Year**

Fall	Credits	Spring	Credits
ASIALANG 301	4	ASIALANG 302	4
ASIAN 351	3	ASIAN 352	3
ASIAN 375	3	POLI SCI 346	4
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (if B.A.)	3	ASIAN 699 (or Elective, Intermediate or Advanced level)	4
Elective	4		
<b>17</b>		<b>15</b>	

**Total Credits 32****SUMMER TWO [OPTIONAL]**

Code	Title	Credits
Choose one:		3
INTL ST 523	International Internship ( For International Internship)	
ASIAN 699	Directed Study	
Elective		

**Total Credits 3****Third Year**

Fall	Credits	Spring	Credits
ASIALANG 378	3	ASIALANG 454	3
HISTORY/ASIAN 341	4	ASIAN 630	3
ASIAN 681 (or Elective, Intermediate or Advanced level)	3	ASIAN 682	3
Elective (Intermediate or Advanced level)	3	Elective (Intermediate or Advanced level)	6
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced) (if B.A.)	3		
<b>16</b>		<b>15</b>	

**Total Credits 31**

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor.

Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

### UNDERGRADUATE RESEARCH

Students in the Asian Languages and Cultures (ALC) department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

### DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our programs. Application information and deadlines (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>).

#### Chinese Language Learners Bridge Fund

Chinese Major Alumni Jarrett Wiesolek (Class of 2011) and Ali Dibble (Class of 2012) launched the Bridge Fund in 2016. CLLBF is designed to award scholarships to students who are passionate about learning Chinese and building bridges between UW-Madison and China.

#### Chou Kuo-p'ing Book Award

Several awards will be given each year to undergraduate students who are studying and will continue to study Chinese during the following semester. This award is made possible through a donation by Professor Emerita Chou Kuo-p'ing, the founder of the Chinese program here at the University of Wisconsin-Madison. Professor Chou, a dedicated teacher, devoted her entire career to teaching, promoting, and developing Chinese studies in Wisconsin. Professor Chou was very active during her teaching career, and often helped financially disadvantaged students, especially those who excelled in their academic careers despite economic difficulties. Although this award is based mainly on the applicant's academic performance, special consideration is given to those who are financially disadvantaged in order to carry on this tradition.

#### Ellen and William E. Fisher Scholarship

Ellen and William E. Fisher have provided funding for an annual scholarship to be awarded to an undergraduate student at UW–Madison who is studying the Chinese language. According to the terms of the gift agreement, the award is based on merit, therefore there is no application, but faculty will make a determination based on students progressing in the program. Mr. Fisher stipulated that the award must be made in the Fall semester, so that the recipient can use it in the Spring semester.

#### Gwang-Tsai Chen Award

Professor Sabina Knight established this scholarship in honor of Gwang-Tsai (Arthur) Chen, Emeritus Professor of East Asian Languages and Literature at UW–Madison. The scholarship recognizes a rising undergraduate Chinese major. Student eligibility: must be a non-heritage language learner, freshman or sophomore standing, a GPA above 3.5.

#### Lawrence Louey Merit Scholarship

The Lawrence Louey Merit Scholarship is an annual competition recognizing an undergraduate Chinese major in the Department of Asian Languages and Cultures. Eligibility: You must be a graduating senior with a GPA above 3.75 and have taken at least three years of Chinese. An application is required for consideration, including a brief career plan, as well as a research paper from one of your major field courses.

## CAMPUS RESOURCES

#### Foreign Language & Area Studies (FLAS) Fellowships

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, ldennis@wisc.edu (ldennis@international.wisc.edu), 325 Ingraham Hall

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership—activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<https://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler (mdgeisler@studyabroad.wisc.edu), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)

Campus Representative: Mark Lilleleht, Assistant Director for Awards at awards@iris.wisc.edu

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

#### Gilman Scholarship Program

Campus Representative: Andy Quackenbush

(quackenbush@studyabroad.wisc.edu), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## CHINESE, B.S.

The Chinese program offers students a range of courses and activities which impart an understanding of the culture and civilization of China. With the completion of three years of the language, students will be prepared to handle various types of colloquial Chinese. Most majors pursue advanced studies in Chinese linguistics or literature, while others combine an interest in China with a degree in business, education, engineering or journalism.

Visit our website (<https://alc.wisc.edu/undergraduate-studies/undergraduate-studies-in-chinese/>) for more information about the undergraduate studies in Chinese.

## STUDY ABROAD IN CHINA

Students may receive residence credit for study abroad through a variety of different programs. Our faculty direct the summer UW Intensive Chinese Language (<https://studyabroad.wisc.edu/program/?programId=154>) program in Tianjin. Students on this intensive language program study Mandarin Chinese over the summer, earning up to a full year's worth of language credits. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various internship opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

## STARTING COURSEWORK TOWARD THE MAJOR

Students may declare the Chinese major at any time. Before declaring the major, students may begin coursework to explore the language and fields of interest. Those students who have studied Chinese prior to coming to UW–Madison will have to take a placement test (<https://alc.wisc.edu/placement-tests/>) to determine the best class to enroll in on campus.

### HOW TO GET IN

## PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Chinese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

## DECLARING THE MAJOR

Declaring the major is as easy as meeting with the undergraduate advisor, make an appointment to review requirements and discuss course plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

Students declared in the Chinese Professional Communication certificate may not be declared in the Chinese major at the same time. Students who do wish to declare the Chinese major must first cancel their declaration in the Chinese Professional Communication certificate.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>Breadth–Humanities/Literature/Arts: 6 credits</li> <li>Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth–Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Prerequisites: First &amp; Second Year Language</b>		
<i>First Semester Chinese (complete one):</i>		4
ASIALANG 101	First Semester Chinese	
ASIALANG 110 & ASIALANG 111	Elementary Chinese I and Elementary Chinese II	
<i>Followed by (complete all):</i>		
ASIALANG 102	Second Semester Chinese	4
ASIALANG 201	Third Semester Chinese	4
ASIALANG 202	Fourth Semester Chinese	4
<i>Sequence for Heritage Speakers</i>		
ASIALANG 211 & ASIALANG 212	Heritage Chinese I and Heritage Chinese II	
<b>Required Language Course</b>		
ASIALANG 301	Fifth Semester Chinese	4
<b>Advanced or Specialized Language Courses (3 courses):</b>		
ASIALANG 302	Sixth Semester Chinese	
ASIALANG 311	First Semester Classical Chinese	
ASIALANG 312	Second Semester Classical Chinese	
ASIALANG 378	Chinese Conversation	
ASIALANG 379	Business Chinese	
ASIALANG 401	Seventh Semester Chinese	
ASIALANG 402	Eighth Semester Chinese	
ASIALANG 454	Advanced Chinese through Media	
ASIALANG 457	Advanced Chinese: Reading and Writing	
<b>Chinese Culture, Linguistics, and Literature</b>		
<i>Introductory Course (complete one):</i>		3
ASIAN 100	Gateway to Asia: Special Topics	
ASIAN/HISTORY 103	Introduction to East Asian History: China	
ASIAN 203	Lost in Translation: Western Experience in Asia	
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	
ART HIST 203	Survey of Asian Art	
LITTRANS 261	Survey of Chinese Literature in Translation	
LITTRANS 262	Survey of Chinese Literature in Translation	
SOC 225	Contemporary Chinese Society	

<i>Intermediate Courses (complete three courses):</i>		9
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ASIAN/RELIG ST 307	A Survey of Tibetan Buddhism	
ASIAN 351	Survey of Classical Chinese Literature	
ASIAN 352	Survey of Modern Chinese Literature	
ASIAN/HISTORY 363	China and World War II in Asia	
ASIAN 371	Topics in Chinese Literature	
ASIAN 372	Topics in Chinese: Study Abroad	
ASIAN 375	Survey of Chinese Film	
ASIAN 432	Introduction to Chinese Linguistics	
ASIALANG 311	First Semester Classical Chinese	
ASIALANG 312	Second Semester Classical Chinese	
HISTORY/ASIAN 337	Social and Intellectual History of China, 589 AD-1919	
ASIAN/HISTORY 341	History of Modern China, 1800-1949	
ASIAN/HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	
POLI SCI 324	Chinese Politics	
POLI SCI 346	China in World Politics	
<i>Advanced Course (complete one):</i>		3
ASIAN 571	Readings in Classical Chinese Literature	
ASIAN 631	History of the Chinese Language	
ASIAN 641	History of Chinese Literature I	
ASIAN 642	History of Chinese Literature II	
ASIAN 671	Literary Studies in Chinese Drama	
ASIAN 672	Studies in Chinese Fiction	
ASIAN 681	Senior Honors Thesis	
ASIAN 682	Senior Honors Thesis	
ASIAN 691	Senior Thesis	
ASIAN 692	Senior Thesis	
ASIAN 698	Directed Study	
ASIAN 699	Directed Study	
THEATRE 526	The Theatres of China and Japan	

**Total Credits** **44**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, in residence
- 15 credits in the major, taken on campus

**Upper-level courses in the major:**

Code	Title	Credits
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4
ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN/ HISTORY 363	China and World War II in Asia	3-4
ASIAN 371	Topics in Chinese Literature	3
ASIAN 372	Topics in Chinese: Study Abroad	1-6
ASIAN 375	Survey of Chinese Film	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 571	Readings in Classical Chinese Literature	1-3
ASIAN 631	History of the Chinese Language	3
ASIAN 632	Studies in Chinese Linguistics	3
ASIAN 641	History of Chinese Literature I	3
ASIAN 642	History of Chinese Literature II	3
ASIAN 671	Literary Studies in Chinese Drama	3
ASIAN 672	Studies in Chinese Fiction	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 301	Fifth Semester Chinese	4
ASIALANG 302	Sixth Semester Chinese	4
ASIALANG 311	First Semester Classical Chinese	3
ASIALANG 312	Second Semester Classical Chinese	3
ASIALANG 378	Chinese Conversation	3
ASIALANG 379	Business Chinese	3
ASIALANG 401	Seventh Semester Chinese	3
ASIALANG 402	Eighth Semester Chinese	3
ASIALANG 454	Advanced Chinese through Media	3
ASIALANG 457	Advanced Chinese: Reading and Writing	3
ASIALANG 475	Advanced Topics in Asian Translation	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3

E A STDS 337		3-4
E A STDS 341		3-4
E A STDS 342		3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
POLI SCI 324	Chinese Politics	3-4
POLI SCI 346	China in World Politics	3-4

**HONORS IN THE MAJOR**

Students may declare Honors in the Major in consultation with the Chinese undergraduate advisor.

**HONORS IN THE MAJOR REQUIREMENTS**

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - ASIAN 699 or other appropriate course of 3-4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before ASIAN 681.
  - A two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Understand the content and cultural context of written texts and audiovisual materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.

5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
ASIALANG 101	4	ASIALANG 102	4
ASIAN 100 ( Humanities Breadth)	3-4	ASIAN/ASIAN AM/ HISTORY 246 (meets Ethnic Studies requirement)	4
Communication A	3	Quantitative Reasoning A	3-4
Biological Science Breadth	3	Science Breadth	3
		Students beginning language study this term may start with:	
		ASIALANG 110	
		<b>14</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
ASIALANG 201 or 111	4	ASIALANG 202 or 102	4
Or students continue with:		ASIAN/RELIG ST 236 (Communication B)	3
ASIALANG 111		ASIAN 203 (Humanities Breadth)	3
ASIAN/HISTORY/ POLI SCI 255 (Social Science Breadth)	3-4	Physical Science Breadth	3
ASIAN/HISTORY/ RELIG ST 267 (Humanities Breadth)	3-4	Elective	3
Quantitative Reasoning B	3-4		
		<b>14</b>	<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
ASIALANG 301 or 201	4	ASIALANG 302 or 202	4
ASIALANG 311	3	ASIALANG 379	3
ASIAN/HISTORY 342 (Social Science Breadth)	3-4	ASIAN 352 (Literature Breadth)	3
ASIAN 371	3	ASIAN 699	2-3
Science Breadth	3	Elective	3
		<b>16</b>	<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
ASIALANG 301 (if needed)	4	ASIALANG 302 (if needed)	4
ASIALANG 378	3	ASIAN 641	3
ASIAN 375	3	ASIAN 682 or 692	3
ASIAN 631	3	Electives	3-7
ASIAN 681 or 691	3		
Elective	0-4		
		<b>16</b>	<b>13</b>

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with a Chinese major should enter the University with a minimum of 26 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- First year Chinese (ASIALANG 101 and ASIALANG 102) – All students are required to take a placement test in Chinese to assess their prior experience in the language. Students should register for a date (<https://alc.wisc.edu/languages/placement-tests-2/>) prior to their SOAR visit.
- Communication Part A
- Quantitative Reasoning Part A
- 6 combined credits of Biological, Natural, or Physical Science



**First Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ASIALANG 201	4	ASIALANG 202	4
ASIAN/HISTORY/ POLI SCI 255	4	ASIAN/RELIG ST 236 (meets Communication B)	3
Quantitative Reasoning B	4	ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244 (meets Ethnic Studies requirement)	4
Biological Science Breadth	4	Physical Science Breadth	4
<b>16</b>		<b>15</b>	

**Total Credits 31****SUMMER ONE [OPTIONAL]**

Summer terms present an opportunity for students to make progress toward remaining L&S Breadth and General Education Requirements. Other options for academic enrichment or career exploration might include study abroad (<https://studyabroad.wisc.edu/>) or international internships (<https://internships.international.wisc.edu/>).

UW Intensive Chinese Language in Tianjin Study Abroad (<https://studyabroad.wisc.edu/program/?programId=154>) Session I or II or Both

**Total Credits: 4-8****Second Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ASIALANG 301	4	ASIALANG 302	4
ASIAN 351	3	ASIAN 352	3
ASIAN 375	3	POLI SCI 346	4
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (if B.A.)	3	ASIAN 699 (or Elective, Intermediate or Advanced level)	4
Elective	4		
<b>17</b>		<b>15</b>	

**Total Credits 32****SUMMER TWO [OPTIONAL]**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
Choose one:		3
INTL ST 523	International Internship ( For International Internship)	
ASIAN 699	Directed Study	
Elective		
<b>Total Credits</b>		<b>3</b>

**Third Year**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ASIALANG 378	3	ASIALANG 454	3
HISTORY/ASIAN 341	4	ASIAN 630	3
ASIAN 681 (or Elective, Intermediate or Advanced level)	3	ASIAN 682	3

Elective (Intermediate or Advanced level)	3	Elective (Intermediate or Advanced level)	6
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced) (if B.A.)	3		
<b>16</b>		<b>15</b>	

**Total Credits 31****ADVISING AND CAREERS****ADVISING**

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW–Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

### UNDERGRADUATE RESEARCH

Students in the ALC department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW–Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

### DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our programs. Application information and deadlines (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>).

#### Chinese Language Learners Bridge Fund

Chinese Major Alumni Jarrett Wiesolek (Class of 2011) and Ali Dibble (Class of 2012) launched the Bridge Fund in 2016. CLLBF is designed to award scholarships to students who are passionate about learning Chinese and building bridges between UW–Madison and China.

#### Chou Kuo-p'ing Book Award

Several awards will be given each year to undergraduate students who are studying and will continue to study Chinese during the following semester. This award is made possible through a donation by Professor Emerita Chou Kuo-p'ing, the founder of the Chinese program here at the University of Wisconsin–Madison. Professor Chou, a dedicated teacher, devoted her entire career to teaching, promoting, and developing Chinese studies in Wisconsin. Professor Chou was very active during her teaching career, and often helped financially disadvantaged students, especially those who excelled in their academic careers despite economic difficulties. Although this award is based mainly on the applicant's academic performance, special consideration is given to those who are financially disadvantaged in order to carry on this tradition.

#### Ellen and William E. Fisher Scholarship

Ellen and William E. Fisher have provided funding for an annual scholarship to be awarded to an undergraduate student at UW–Madison who is studying the Chinese language. According to the terms of the gift agreement, the award is based on merit, therefore there is no application, but faculty will make a determination based on students progressing in the program. Mr. Fisher stipulated that the award must be made in the Fall semester, so that the recipient can use it in the Spring semester.

#### Gwang-Tsai Chen Award

Professor Sabina Knight established this scholarship in honor of Gwang-Tsai (Arthur) Chen, Emeritus Professor of East Asian Languages and Literature at UW–Madison. The scholarship recognizes a rising undergraduate Chinese major. Student eligibility: must be a non-heritage language learner, freshman or sophomore standing, a GPA above 3.5.

#### Lawrence Louey Merit Scholarship

The Lawrence Louey Merit Scholarship is an annual competition recognizing an undergraduate Chinese major in the Department of Asian Languages and Cultures. Eligibility: You must be a graduating senior with a GPA above 3.75 and have taken at least three years of Chinese. An application is required for consideration, including a brief career plan, as well as a research paper from one of your major field courses.

## CAMPUS RESOURCES

#### Foreign Language & Area Studies (FLAS) Fellowships

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, [ldennis@wisc.edu](mailto:ldennis@wisc.edu) ([ldennis@international.wisc.edu](mailto:ldennis@international.wisc.edu)), 325 Ingraham Hall

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership–activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process

- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<https://borenawards.org/>)  
Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)  
Campus Representative: Mark Lilleleht, Assistant Director for Awards at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

### Gilman Scholarship Program

Campus Representative: Andy Quackenbush ([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu)), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## CAMPUS RESOURCES

Foreign Language & Area Studies (FLAS) Fellowships (<https://flas.wisc.edu/>)

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison’s National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on

federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

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Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>)  
This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

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We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership–activities at the heart of the Wisconsin Experience. We can help you:

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- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)  
Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central and Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)). Undergraduates with questions about the Boren Scholarship (<https://www.borenawards.org/scholarships/program-basics/boren-scholarship-basics/>) should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs.

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The Critical Language Scholarship (CLS) Program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the

goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds, and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities, are encouraged to apply.

### Gilman Scholarship Program

Campus Representative: Andy Quackenbush (quackenbush@studyabroad.wisc.edu), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## JAPANESE PROFESSIONAL COMMUNICATION, CERTIFICATE

The certificate in Japanese professional communication provides students with the opportunity to develop proficiency in Japanese while pursuing majors in other subjects across the university. It emphasizes the development of communication skills that are applicable to various professional contexts that students may encounter in their future careers.

### STUDY ABROAD IN JAPAN

Students may receive residence credit for **study abroad** through a variety of different programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various **internship** opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

### HOW TO GET IN

### PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Japanese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

### DECLARING THE CERTIFICATE

Declaring the certificate is as easy as meeting with the undergraduate advisor, make an appointment to review requirements and discuss course

plans on Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

Students declared in the Japanese major are not eligible to declare the Japanese Professional Communication certificate.

### REQUIRED PREREQUISITE LANGUAGE COURSES

Code	Title	Credits
ASIALANG 103	First Semester Japanese	4
<i>or</i>		
ASIALANG 113 & ASIALANG 114	First Semester Elementary Japanese and Second Semester Elementary Japanese	4
<i>and</i>		
ASIALANG 104	Second Semester Japanese	4
ASIALANG 203	Third Semester Japanese	4
ASIALANG 204	Fourth Semester Japanese	4

### REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

15 credits distributed as follows:

Code	Title	Credits
<b>Business Language Course</b>		
Required course:		
ASIALANG 377	Business Japanese Communication	3
<b>Advanced Japanese Language Courses</b>		
Complete three courses, from:		
ASIALANG 303	Fifth Semester Japanese	
ASIALANG 375	Advanced Japanese: Solidifying the Foundations	
ASIALANG 376	Japanese Conversation	
ASIALANG 451	Advanced Readings in Japanese	
ASIALANG 452	Advanced Japanese through Audio-Visual Media	
<b>Japanese Literature or Humanities Electives</b>		
<b>3</b>		
ASIAN/HISTORY 104	Introduction to East Asian History: Japan	
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN 253	Japanese Popular Culture	
ASIAN 301	Social Studies Topics in East Asian Studies	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	
ASIAN 354	Early Modern Japanese Literature	
ASIAN 355	Modern Japanese Literature	
ASIAN 358	Language in Japanese Society	
ASIAN 361	Love and Politics: The Tale of Genji	

ASIAN 367	Haiku
ASIAN 373	Topics in Japanese: Study Abroad
ASIAN 376	Manga
ASIAN 378	Anime
ASIAN 434	Introduction to Japanese Linguistics
ASIAN/ HISTORY 454	Samurai: History and Image
ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
ASIAN 533	Readings in Early Modern Japanese Literature
ASIAN 563	Readings in Modern Japanese Literature
ASIAN 573	Readings in Classical Japanese Literature
ASIALANG 313	Classical Japanese
ANTHRO 357	Introduction to the Anthropology of Japan
ART HIST 372	Arts of Japan
ART HIST 475	Japanese Ceramics and Allied Arts
LITTRANS 368	Modern Japanese Fiction
LITTRANS 373	Topics in Japanese Literature

**Total Credits****15**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 8 certificate credits must be completed in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Explain in the target language their academic and professional experiences, and articulate their career objectives, both in writing and speaking.
2. Manage basic everyday workplace (face-to-face, telephone, and email) communications in the target language (e.g., greeting, introducing oneself, making/changing appointments, making and receiving requests, obtaining permission, reporting, thanking, apologizing).
3. With preparation, deliver a clear, concise, and connected presentation in the target language, with the effective use of visual images, on a subject they researched through online resources and/or interviews.
4. Demonstrate an awareness of the significance of honorific and formulaic expressions and etiquette observed in the workplace within the target culture, which can be applied to their life-long learning.
5. Demonstrate an awareness of diverse cultural perspectives, which may influence business and other professional practices, and a disposition to approach unfamiliar contexts with an open mind.

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

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## PEOPLE

## FACULTY &amp; STAFF

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- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
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## RESOURCES AND SCHOLARSHIPS

## CAMPUS RESOURCES

**Foreign Language & Area Studies (FLAS) Fellowships**

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, [ldennis@wisc.edu](mailto:ldennis@wisc.edu) ([ldennis@international.wisc.edu](mailto:ldennis@international.wisc.edu)), 325 Ingraham Hall

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## NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

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Critical Language Scholarship Program (<http://www.clscholarship.org/>) Campus Representative: Mark Lilleleht, Assistant Director for Awards at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

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The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

**Gilman Scholarship Program**

Campus Representative: Andy Quackenbush ([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu))

The Gilman Scholarship Program is an undergraduate grant program for U.S. citizens of limited financial means to enable them to study abroad,

thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## JAPANESE, B.A.

The Japanese program offers students a range of courses and activities which enhance students' intercultural and transcultural competencies. With the completion of the four basic years of the language, students will be prepared to handle various types of colloquial Japanese. Our majors pursue advanced studies in Japanese language or literature. It is also possible to combine an interest in Japan with a degree in business, engineering, history, or international studies.

Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have previous Japanese study experience may enter advanced courses on the basis of department recommendation.

Visit our website (<https://alc.wisc.edu/undergraduate-studies/undergraduate-studies-in-japanese/>) for more information about undergraduate studies in Japanese.

## STUDY ABROAD IN JAPAN

Students may receive residence credit for **study abroad** through a variety of programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various **internship** opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

## STARTING COURSEWORK TOWARD THE MAJOR

Before declaring the major, students are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have previous Japanese study experience may enter advanced courses on the basis of placement tests (<https://alc.wisc.edu/languages/placement-tests/>).

## HOW TO GET IN

### PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Japanese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

### DECLARING THE MAJOR

Students must meet with the undergraduate advisor to review the requirements and discuss course plans, make an appointment on Starfish.

Students may declare the major prior to completing the requisite language courses (1st and 2nd semester).

Students declared in the Japanese Professional Communication certificate may not be declared in the Japanese major at the same time.

Students who do wish to declare the Japanese major must first cancel their declaration in the Japanese Professional Communication certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW-Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Prerequisites: First and Second Year Language</b>		
<i>First Semester Japanese (complete one):</i>		4
ASIALANG 103	First Semester Japanese	
ASIALANG 113 & ASIALANG 114	First Semester Elementary Japanese and Second Semester Elementary Japanese	
<i>Followed by (complete all):</i>		
ASIALANG 104	Second Semester Japanese	4
ASIALANG 203	Third Semester Japanese	4
ASIALANG 204	Fourth Semester Japanese	4
<b>Required Language Course</b>		
ASIALANG 303	Fifth Semester Japanese	4
<b>Advanced or Specialized Language Courses</b> 9		
Complete three courses:		
ASIALANG 313	Classical Japanese	
ASIALANG 375	Advanced Japanese: Solidifying the Foundations	
ASIALANG 376	Japanese Conversation	
ASIALANG 377	Business Japanese Communication	
ASIALANG 451	Advanced Readings in Japanese	
ASIALANG 452	Advanced Japanese through Audio-Visual Media	

## Japanese Culture, Linguistics, and Literature

<i>Introductory Course (complete one course):</i>		3
ASIAN 100	Gateway to Asia: Special Topics	
ASIAN/HISTORY 104	Introduction to East Asian History: Japan	
ASIAN 203	Lost in Translation: Western Experience in Asia	
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN 253	Japanese Popular Culture	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	
ART HIST 203	Survey of Asian Art	
<i>Intermediate Courses (complete three courses):</i>		9
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	
ASIAN 354	Early Modern Japanese Literature	
ASIAN 355	Modern Japanese Literature	
ASIAN 357	Japanese Ghost Stories	
ASIAN 358	Language in Japanese Society	
ASIAN 361	Love and Politics: The Tale of Genji	
ASIAN 367	Haiku	
ASIAN 373	Topics in Japanese: Study Abroad	
ASIAN 376	Manga	
ASIAN 378	Anime	
ASIAN 434	Introduction to Japanese Linguistics	
ASIAN/HISTORY 454	Samurai: History and Image	
ASIAN/HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	
ASIALANG 313	Classical Japanese	
ANTHRO 357	Introduction to the Anthropology of Japan	
ART HIST 372	Arts of Japan	
LITTRANS 373	Topics in Japanese Literature	
LITTRANS 368	Modern Japanese Fiction	
<i>Advanced Course (complete one):</i>		3
ASIAN/RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	
ASIAN 533	Readings in Early Modern Japanese Literature	
ASIAN 563	Readings in Modern Japanese Literature	
ASIAN 573	Readings in Classical Japanese Literature	
ASIAN 655	Ethnography in Asia	
ASIAN 682	Senior Honors Thesis	
ASIAN 692	Senior Thesis	
ASIAN 699	Directed Study	

## Total Credits

44



## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA in 15 upper-level major credits, in residence
- 15 credits in the major, taken on campus

### Upper-level major courses in the major:

Code	Title	Credits
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 357	Japanese Ghost Stories	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN/ HISTORY 454	Samurai: History and Image	3-4
ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 303	Fifth Semester Japanese	4
ASIALANG 313	Classical Japanese	3
ASIALANG 376	Japanese Conversation	3
ASIALANG 377	Business Japanese Communication	3
ASIALANG 375	Advanced Japanese: Solidifying the Foundations	3
ASIALANG 451	Advanced Readings in Japanese	3
ASIALANG 452	Advanced Japanese through Audio-Visual Media	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
ART HIST 372	Arts of Japan	3-4

ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST 575	Proseminar in Japanese Art	3
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 373	Topics in Japanese Literature	3

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - Either ASIAN 699 or other appropriate course of 3–4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before ASIAN 681.
  - Complete a two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and video materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting

and selecting relevant information using English and target language source materials.

6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
ASIALANG 103	4	ASIALANG 104	4
ASIAN 100	3-4	ASIAN/ASIAN AM/ HISTORY 246 (meets Ethnic Studies requirement)	4
Communication A	3	Quantitative Reasoning A	3-4
Biological Science Breadth	3	Science Breadth	3-4
Students beginning language study this term may start with:			
ASIALANG 113			
<b>14</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
ASIALANG 203	4	ASIALANG 204 or 104	4
Or students continue with:		ASIAN/RELIG ST 236 (Communication B)	3
ASIALANG 114		ASIAN 253 (Humanities Breadth)	3
ASIAN/HISTORY/ POLI SCI 255 (Social Science Breadth)	3-4	ASIAN 355 (Literature Breadth)	3
ASIAN/HISTORY/ RELIG ST 267 (Humanities Breadth)	3-4	Physical Science Breadth	3-4
Quantitative Reasoning B	3-4		
<b>14</b>		<b>16</b>	

#### Third Year

Fall	Credits	Spring	Credits
ASIALANG 303 or 203	4	ASIALANG 304 or 204	4
ASIAN 376	3	ASIALANG 377	3
ASIAN 367 (Literature Breadth)	3	ASIAN 699	2-3
ASIAN 373	1-6	Science Breadth	3
ASIAN/HISTORY 454	3-4	Elective	3-4
<b>16-17</b>		<b>16</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
ASIALANG 303 (if not yet completed)	4	ASIALANG 304 (if not yet completed)	4
ASIAN 434	3	ASIALANG 475 (Japanese topic only)	3
ASIAN 563	3	ASIAN/HISTORY 456	3-4
ASIAN 691	3	ASIAN 692	3
Electives	3-7	Elective	3-4
<b>16</b>		<b>13</b>	

**Total Credits 120-121**

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

### UNDERGRADUATE RESEARCH

Students in the ALC department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

### DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our programs. Application information and deadlines (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>).

#### Cameron G. Keith Memorial Scholarship

This award is given annually to two undergraduate students studying Japanese. This award is announced during the fall semester, and eligible students may apply. The criteria are: Japanese major, junior or senior standing, cumulative GPA of 3.5 or above, currently taking Japanese, and plan to go into a Japanese related profession. Cameron G. Keith was an East Asian Studies and Economics studies major at UW-Madison who

studied abroad in Japan, and later in Nepal. In his memory, the Keith family established these funds in honor of his interest in the region.

## OTHER CAMPUS RESOURCES

### Foreign Language & Area Studies (FLAS) Fellowships

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, [ldennis@wisc.edu](mailto:ldennis@wisc.edu) ([ldennis@international.wisc.edu](mailto:ldennis@international.wisc.edu)), 325 Ingraham Hall

FLAS fellowships are funded by the US Department of Education and administered by UW-Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW-Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campuswide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW-Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campuswide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership-activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

### NATIONAL SCHOLARSHIPS

Boren Scholarships (<http://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler ([mdgeisler@studyabroad.wisc.edu](mailto:mdgeisler@studyabroad.wisc.edu)), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an

appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)  
Campus Representative: Mark Lilleleht, Assistant Director for Awards at [awards@iris.wisc.edu](mailto:awards@iris.wisc.edu)

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning. The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

#### **Gilman Scholarship Program**

Campus Representative: Andy Quackenbush  
([quackenbush@studyabroad.wisc.edu](mailto:quackenbush@studyabroad.wisc.edu))

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## JAPANESE, B.S.

The Japanese program offers students a range of courses and activities which enhance students' intercultural and transcultural competencies. With the completion of the four basic years of the language, students will be prepared to handle various types of colloquial Japanese. Our majors pursue advanced studies in Japanese language or literature. It is also possible to combine an interest in Japan with a degree in business, engineering, history, or international studies.

Majors are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have previous Japanese study experience may enter advanced courses on the basis of department recommendation.

Visit our website (<https://alc.wisc.edu/undergraduate-studies/undergraduate-studies-in-japanese/>) for more information about undergraduate studies in Japanese.

## STUDY ABROAD IN JAPAN

Students may receive residence credit for **study abroad** through a variety of programs sponsored by the department. Please contact International Academic Programs (<https://www.studyabroad.wisc.edu/>) for details.

Students may also receive credit, or gain experience, through various **internship** opportunities abroad. Please contact International Internship Programs (<http://internships.international.wisc.edu/>) for details.

## STARTING COURSEWORK TOWARD THE MAJOR

Before declaring the major, students are urged to begin coursework early, ideally in the freshman or sophomore year. If, however, this is not possible, summer courses at UW–Madison or elsewhere are available which speed the student's progress. Those who have previous Japanese study experience may enter advanced courses on the basis of placement tests (<https://alc.wisc.edu/languages/placement-tests/>).

### HOW TO GET IN

## PLACEMENT EXAM

The Asian Languages and Cultures department offers placement exams for students with prior language study or experience as a speaker of Japanese. For more information, see the department's website (<https://alc.wisc.edu/languages/placement-tests-2/>).

## DECLARING THE MAJOR

Students must meet with the undergraduate advisor to review the requirements and discuss course plans, make an appointment on Starfish.

Students may declare the major prior to completing the requisite language courses (1st and 2nd semester).

Students declared in the Japanese Professional Communication certificate may not be declared in the Japanese major at the same time. Students who do wish to declare the Japanese major must first cancel their declaration in the Japanese Professional Communication certificate.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Prerequisites: First and Second Year Language</b>		
<i>First Semester Japanese (complete one):</i>		4
ASIALANG 103	First Semester Japanese	
ASIALANG 113 & ASIALANG 114	First Semester Elementary Japanese and Second Semester Elementary Japanese	
<i>Followed by (complete all):</i>		
ASIALANG 104	Second Semester Japanese	4
ASIALANG 203	Third Semester Japanese	4
ASIALANG 204	Fourth Semester Japanese	4
<b>Required Language Course</b>		
ASIALANG 303	Fifth Semester Japanese	4
<b>Advanced or Specialized Language Courses</b> 9		
Complete three courses:		
ASIALANG 313	Classical Japanese	
ASIALANG 375	Advanced Japanese: Solidifying the Foundations	
ASIALANG 376	Japanese Conversation	
ASIALANG 377	Business Japanese Communication	
ASIALANG 451	Advanced Readings in Japanese	
ASIALANG 452	Advanced Japanese through Audio-Visual Media	
<b>Japanese Culture, Linguistics, and Literature</b>		
<i>Introductory Course (complete one course):</i>		3
ASIAN 100	Gateway to Asia: Special Topics	
ASIAN/HISTORY 104	Introduction to East Asian History: Japan	
ASIAN 203	Lost in Translation: Western Experience in Asia	
ASIAN/RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN 253	Japanese Popular Culture	
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	
ASIAN/HISTORY/RELIG ST 267	Asian Religions in Global Perspective	
ART HIST 203	Survey of Asian Art	
<i>Intermediate Courses (complete three courses):</i>		9
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	
ASIAN 354	Early Modern Japanese Literature	
ASIAN 355	Modern Japanese Literature	
ASIAN 357	Japanese Ghost Stories	
ASIAN 358	Language in Japanese Society	
ASIAN 361	Love and Politics: The Tale of Genji	
ASIAN 367	Haiku	
ASIAN 373	Topics in Japanese: Study Abroad	
ASIAN 376	Manga	

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

ASIAN 378	Anime	
ASIAN 434	Introduction to Japanese Linguistics	
ASIAN/ HISTORY 454	Samurai: History and Image	
ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	
ASIALANG 313	Classical Japanese	
ANTHRO 357	Introduction to the Anthropology of Japan	
ART HIST 372	Arts of Japan	
LITTRANS 373	Topics in Japanese Literature	
LITTRANS 368	Modern Japanese Fiction	
<i>Advanced Course (complete one):</i>		3
ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	
ASIAN 533	Readings in Early Modern Japanese Literature	
ASIAN 563	Readings in Modern Japanese Literature	
ASIAN 573	Readings in Classical Japanese Literature	
ASIAN 655	Ethnography in Asia	
ASIAN 682	Senior Honors Thesis	
ASIAN 692	Senior Thesis	
ASIAN 699	Directed Study	

**Total Credits** **44**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA in 15 upper-level major credits, in residence
- 15 credits in the major, taken on campus

### Upper-level major courses in the major:

Code	Title	Credits
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 355	Modern Japanese Literature	3
ASIAN 357	Japanese Ghost Stories	3
ASIAN 358	Language in Japanese Society	3
ASIAN 361	Love and Politics: The Tale of Genji	3
ASIAN 367	Haiku	3
ASIAN 373	Topics in Japanese: Study Abroad	1-6
ASIAN 376	Manga	3
ASIAN 378	Anime	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN/ HISTORY 454	Samurai: History and Image	3-4
ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ASIAN 533	Readings in Early Modern Japanese Literature	3
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 573	Readings in Classical Japanese Literature	3
ASIAN 681	Senior Honors Thesis	3
ASIAN 682	Senior Honors Thesis	3
ASIAN 691	Senior Thesis	3
ASIAN 692	Senior Thesis	3
ASIAN 698	Directed Study	2-3
ASIAN 699	Directed Study	2-3
ASIALANG 303	Fifth Semester Japanese	4
ASIALANG 313	Classical Japanese	3
ASIALANG 376	Japanese Conversation	3
ASIALANG 377	Business Japanese Communication	3
ASIALANG 375	Advanced Japanese: Solidifying the Foundations	3
ASIALANG 451	Advanced Readings in Japanese	3
ASIALANG 452	Advanced Japanese through Audio- Visual Media	3
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
ART HIST 372	Arts of Japan	3-4
ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4
ART HIST 575	Proseminar in Japanese Art	3
LITTRANS 368	Modern Japanese Fiction	3
LITTRANS 373	Topics in Japanese Literature	3

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all courses accepted in the major
- Complete the following coursework, with a grade of B or better:
  - Either ASIAN 699 or other appropriate course of 3-4 credits with the major professor, under whose guidance a student intends to write a thesis. This course must be taken before ASIAN 681.
  - Complete a two-semester Senior Honors Thesis in ASIAN 681 and ASIAN 682, for a total of 6 credits.

# UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the content and cultural context of written texts and video materials with a large degree of independence, adapting style and speed of comprehension to different texts and purposes, and using appropriate reference sources selectively.
2. Spontaneously exchange ideas about various topics with relative ease.
3. State and support one's own opinion while acknowledging others' viewpoints.
4. Demonstrate an awareness of the importance of pragmatic, sociolinguistic, and rhetorical features of the target language.
5. Conduct library and/or internet-based research on topics relating to their particular interests and special fields of expertise, collecting and selecting relevant information using English and target language source materials.
6. Synthesize and critically evaluate source materials in both English and the target language.
7. Present (orally or in written language) their experiences and their introspection on these experiences in a coherent and effective manner.
8. Demonstrate cultural awareness across historical epochs.
9. Produce effective academic writing in English.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

First Year			
Fall	Credits	Spring	Credits
ASIALANG 103	4	ASIALANG 104	4
ASIAN 100	3-4	ASIAN/ASIAN AM/ HISTORY 246 (meets Ethnic Studies requirement)	4
Communication A	3	Quantitative Reasoning A	3-4
Biological Science Breadth	3	Science Breadth	3-4
		Students beginning language study this term may start with:	
		ASIALANG 113	
		<b>14</b>	<b>15</b>

Second Year			
Fall	Credits	Spring	Credits
ASIALANG 203	4	ASIALANG 204 or 104	4
Or students continue with:		ASIAN/RELIG ST 236 (Communication B)	3
ASIALANG 114		ASIAN 253 (Humanities Breadth)	3
ASIAN/HISTORY/ POLI SCI 255 (Social Science Breadth)	3-4	ASIAN 355 (Literature Breadth)	3
ASIAN/HISTORY/ RELIG ST 267 (Humanities Breadth)	3-4	Physical Science Breadth	3-4
Quantitative Reasoning B	3-4		
		<b>14</b>	<b>16</b>

Third Year			
Fall	Credits	Spring	Credits
ASIALANG 303 or 203	4	ASIALANG 304 or 204	4
ASIAN 376	3	ASIALANG 377	3
ASIAN 367 (Literature Breadth)	3	ASIAN 699	2-3
ASIAN 373	1-6	Science Breadth	3
ASIAN/HISTORY 454	3-4	Elective	3-4
		<b>16-17</b>	<b>16</b>

Fourth Year			
Fall	Credits	Spring	Credits
ASIALANG 303 (if not yet completed)	4	ASIALANG 304 (if not yet completed)	4
ASIAN 434	3	ASIALANG 475 (Japanese topic only)	3
ASIAN 563	3	ASIAN/HISTORY 456	3-4
ASIAN 691	3	ASIAN 692	3
Electives	3-7	Elective	3-4
		<b>16</b>	<b>13</b>

**Total Credits 120-121**

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in general education and major requirements before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor.

Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

Rachel Weiss is the advisor for the undergraduate majors and certificates in the Department of Asian Languages and Cultures. She is happy to meet with students as they explore the degree options, prepare for study abroad or advance through their four-year plans. Schedule an appointment in Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/10715/schedule>).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & STAFF

Please visit the Asian Languages & Cultures website (<https://alc.wisc.edu/people/>) for a complete list of faculty, instructional, and academic staff.

## WISCONSIN EXPERIENCE

### UNDERGRADUATE RESEARCH

Students in the ALC department academic programs are encouraged to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

### DEPARTMENT SCHOLARSHIPS

The Department of Asian Languages and Cultures has various scholarships to support meritorious students in our programs. Application information and deadlines (<https://alc.wisc.edu/undergraduate-studies/department-scholarships/>).

#### Chinese Language Learners Bridge Fund

Chinese Major Alumni Jarrett Wiesolek (Class of 2011) and Ali Dibble (Class of 2012) launched the Bridge Fund in 2016. CLLBF is designed to award scholarships to students who are passionate about learning Chinese and building bridges between UW-Madison and China.

#### Chou Kuo-p'ing Book Award

Several awards will be given each year to undergraduate students who are studying and will continue to study Chinese during the following semester. This award is made possible through a donation by Professor Emerita Chou Kuo-p'ing, the founder of the Chinese program here at the University of Wisconsin-Madison. Professor Chou, a dedicated teacher, devoted her entire career to teaching, promoting, and developing Chinese studies in Wisconsin. Professor Chou was very active during her teaching career, and often helped financially disadvantaged students, especially those who excelled in their academic careers despite economic difficulties. Although this award is based mainly on the applicant's academic performance, special consideration is given to those who are financially disadvantaged in order to carry on this tradition.

#### Ellen and William E. Fisher Scholarship

Ellen and William E. Fisher have provided funding for an annual scholarship to be awarded to an undergraduate student at UW-Madison who is



studying the Chinese language. According to the terms of the gift agreement, the award is based on merit, therefore there is no application, but faculty will make a determination based on students progressing in the program. Mr. Fisher stipulated that the award must be made in the Fall semester, so that the recipient can use it in the Spring semester.

#### **Gwang-Tsai Chen Award**

Professor Sabina Knight established this scholarship in honor of Gwang-Tsai (Arthur) Chen, Emeritus Professor of East Asian Languages and Literature at UW–Madison. The scholarship recognizes a rising undergraduate Chinese major. Student eligibility: must be a non-heritage language learner, freshman or sophomore standing, a GPA above 3.5.

#### **Lawrence Louey Merit Scholarship**

The Lawrence Louey Merit Scholarship is an annual competition recognizing an undergraduate Chinese major in the Department of Asian Languages and Cultures. Eligibility: You must be a graduating senior with a GPA above 3.75 and have taken at least three years of Chinese. An application is required for consideration, including a brief career plan, as well as a research paper from one of your major field courses.

## **CAMPUS RESOURCES**

### **Foreign Language & Area Studies (FLAS) Fellowships**

East Asian Studies FLAS Coordinator: Laurie Dennis, Assistant Director, ldennis@wisc.edu (ldennis@international.wisc.edu), 325 Ingraham Hall

FLAS fellowships are funded by the US Department of Education and administered by UW–Madison's National Resource Centers to assist students in acquiring foreign language and either area or international studies competencies. FLAS awards are only available for specific languages (<https://flas.wisc.edu/Languages.htm>), and are contingent on federal funding. Please direct any questions to the FLAS Coordinator (<https://flas.wisc.edu/Languages.html>) of your chosen language.

Applicants must be US citizens or permanent residents of the United States. Applications by students in professional fields are encouraged. Preference will be given to applicants with a high level of academic ability and with previous language training. Academic Year and Summer FLAS awards are **two separate competitions** requiring **two separate and complete applications**.

Scholarships@UW–Madison (<https://scholarships.wisc.edu/Scholarships/>) This is the primary campus-wide portal for applicants, current students, and everyone looking for scholarship opportunities on campus.

Undergraduate Academic Awards Office (<https://awards.advising.wisc.edu/>)

We help UW–Madison undergraduates and recent graduates pursue nationally competitive scholarships (<https://awards.advising.wisc.edu/scholarships/nationally-competitive/>) and campus-wide awards (<https://awards.advising.wisc.edu/scholarships/campus-wide/>) for research, service, and leadership—activities at the heart of the Wisconsin Experience. We can help you:

- Find scholarship opportunities that match your goals and interests
- Navigate the scholarship application process
- Review scholarship essays
- Prepare for national scholarship interviews

Contact us (<https://awards.advising.wisc.edu/schedule-an-appointment/>) to schedule an appointment to discuss which opportunities are right for you.

## **NATIONAL SCHOLARSHIPS**

Boren Scholarships (<https://borenawards.org/>)

Campus Representative: Undergraduates with questions should contact Matt Geisler (mdgeisler@studyabroad.wisc.edu), Associate Director of International Academic Programs

These scholarships provide up to \$20,000 to US undergraduate students to study abroad in areas of the world that are critical to US interests and underrepresented in study abroad, including Africa, Asia, Central & Eastern Europe, Eurasia, Latin America, and the Middle East. The countries of Western Europe, Canada, Australia, and New Zealand are excluded. (Full list of preferred countries (<https://borenawards.org/eligible-programs/#countries>)) Additionally, all programs must include formal study of an appropriate foreign language. (Full list of preferred languages (<https://borenawards.org/eligible-programs/#languages>)).

Critical Language Scholarship Program (<http://www.clscholarship.org/>)

Campus Representative: Mark Lilleleht, Assistant Director for Awards at awards@iris.wisc.edu

The CLS program is part of the US Department of State, Bureau of Educational and Cultural Affairs. It is a fully-funded overseas intensive language and cultural immersion program for American undergraduate and graduate students. With the goal of broadening the base of Americans studying and mastering critical languages and to build relationships between the people of the United States and other countries, CLS provides opportunities to a diverse range of students from across the United States at every level of language learning.

The fourteen CLS languages are: Arabic, Azerbaijani, Bangla, Chinese, Hindi, Indonesian, Japanese, Korean, Persian, Punjabi, Russian, Swahili, Turkish, and Urdu.

The CLS Program seeks participants with diverse interests, from a wide variety of fields of study, backgrounds and career paths, with the purpose of representing the full diversity of the United States. Thus, students from all academic disciplines, including business, engineering, law, medicine, science, social sciences, arts and humanities are encouraged to apply.

### **Gilman Scholarship Program**

Campus Representative: Andy Quackenbush (quackenbush@studyabroad.wisc.edu), Advisor, International Academic Programs

The Gilman Scholarship Program is an undergraduate grant program for US citizens of limited financial means to enable them to study abroad, thereby internationalizing their outlook and better preparing them to assume significant roles in the increasingly global economy.

## **ASTRONOMY**

Astronomy, the oldest of the sciences, for the last several decades has been one of the most exciting fields of modern scientific research. New discoveries concerning the solar system, stars, galaxies, and the origin of the universe continue to be made by both ground and space telescopes. To understand and pursue modern astronomy, one must have a solid background in physics and mathematics as well as in astronomy.

The astronomy–physics major, administered by the Department of Astronomy, provides undergraduates the opportunity to appreciate our

current understanding of the astronomical universe, while developing the necessary physics and math background. Students who intend to continue astronomy in a graduate program are strongly encouraged to do a Senior Thesis ASTRON 691/ASTRON 692 or Senior Honors Thesis ASTRON 681/ASTRON 682. The experiences of actual research and of writing a major paper develop both technical and writing skills.

## DEGREES/MAJORS/CERTIFICATES

- Astronomy–Physics, B.A. (p. 498)
- Astronomy–Physics, B.S. (p. 502)

## PEOPLE

### Faculty:

Professors Richard Townsend (chair), Amy Barger, Thomas Beatty, Matt Bershad, Elena D'Onghia, Kate Grier, Sebastian Heinz, Alex Lazarian, Michael Maseda, Bob Mathieu, Snezana Stanimirovic, Christy Tremonti, Susanna Widicus Weaver, Eric Wilcots, Ke Zhang, and Ellen Zweibel

### Staff:

Department Administrator: Steve Anderson  
 Graduate Program Manager: Heather Sauer  
 Research Administrator: Sophia Didier  
 Building Manager and Purchasing: Rick Williams

See preliminary and career advising (<https://www.astro.wisc.edu/undergraduate-program/current-students/#preliminary-and-career-advising>) for academic advising information.

# ASTRONOMY–PHYSICS, B.A.

## ASTRONOMY

Astronomy, the oldest of the sciences, originated in the human urge to understand the mysterious lights we see in the sky above us—the Sun, the Moon, the planets and the stars. Over the centuries, new tools have become available to study these cosmic icons—telescopes that allow us to see further and fainter, detectors that are sensitive to electromagnetic signals at non-visible wavelengths, and satellites that can observe from outside the confines of the Earth's atmosphere. These tools have answered many questions, but raised even more. How did the Universe begin, and how did the stars and galaxies within it form? How will it end? Are there habitable planets around other stars—and has life emerged on these planets?

## WHY STUDY ASTRONOMY?

- Because it's fascinating: Astronomy speaks directly to our natural urge to better understand our place in the cosmos.
- Because it's challenging: Astronomy studies objects that are distant beyond simple conception.
- Because it's adaptable: Astronomy utilizes a broad set of transferable skills, from a foundation in logical and quantitative reasoning through to data analysis, programming, and visualization.

The UW–Madison Astronomy–Physics program builds on a foundation of classical and modern physics, to embark on a comprehensive study of the observable Universe at scales extending from planets and stars, through to galaxies and the cosmic web.

## A BACHELORS DEGREE FROM THIS STEM PROGRAM CAN:

- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical Astronomy, Astrophysics or Physics.
- Prepare you for employment in industrial or governmental laboratories.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, public policy, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach Astronomy and Physics. To teach these subjects in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

Students who intend to continue astronomy in a graduate program are strongly encouraged to get involved in research early. To learn about research opportunities in the department, please meet with faculty advisors. Please consider applying for Research Experiences for Undergraduates (REU's) and if interested in department research, visit our webpage (<https://www.astro.wisc.edu/undergraduate-program/current-students/>) and reach out to individual faculty. On our webpage you will find our Undergraduate Student Handbook as well as some of the current research projects.

## HOW TO GET IN

Students who wish to declare the Astronomy–Physics may do so after arriving at UW–Madison (students cannot declare this major as part of their UW–Madison admissions process).

Students are encouraged to declare their major as early as their first year. For pre-major and major advising, students should contact the undergraduate advisor or faculty advisors.

Astronomy–Physics Majors should get started on one of the Introductory Physics sequences as early as possible.

Introductory Physics sequences are:

Code	Title	Credits
Sequence 1: PHYSICS 247, 248, and 249		
Sequence 2: PHYSICS 201, 202, and 205		
Sequence 3: PHYSICS 207, 208, and 241		

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the

requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>Breadth—Humanities/Literature/Arts: 6 credits</li> <li>Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth—Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 34 credits in the field of specialization, with at least 6 of these credits in ASTRON and at least 28 credits in PHYSICS.

### COURSE REQUIREMENTS FOR THE MAJOR ARE:

Code	Title	Credits
<b>Astronomy<sup>1</sup></b>		
<i>Complete at least two of the following:</i>		6
ASTRON 310	Stellar Astrophysics <sup>2</sup>	
ASTRON 320	The Interstellar Medium	
ASTRON 330	Galaxies <sup>2</sup>	
ASTRON 335	Cosmology <sup>2</sup>	
ASTRON 340	Solar System Astrophysics	
ASTRON 500	Techniques of Modern Observational Astrophysics <sup>2</sup>	
<b>Physics</b>		
<i>Complete one of the following sequences for Introductory Physics:<sup>3</sup></i>		28
<i>Sequence 1:</i>		
PHYSICS 247 & PHYSICS 248 & PHYSICS 249	A Modern Introduction to Physics and A Modern Introduction to Physics and A Modern Introduction to Physics	
<i>Sequence 2:</i>		
PHYSICS 201 & PHYSICS 202 & PHYSICS 205	General Physics and General Physics and Modern Physics for Engineers	
<i>Sequence 3:</i>		
PHYSICS 207 & PHYSICS 208 & PHYSICS 241	General Physics and General Physics and Introduction to Modern Physics	
<i>Mechanics, Electromagnetic Fields, &amp; Thermal Physics (complete all):</i>		
PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	
PHYSICS 415	Thermal Physics	
<i>Atomic &amp; Quantum Physics (complete either):</i>		
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics	
<i>or</i>		
PHYSICS 531	Introduction to Quantum Mechanics	

Complete one 300-level or higher laboratory course:

ASTRON 465	Observational Astronomy and Data Analysis
PHYSICS 307	Intermediate Laboratory–Mechanics and Modern Physics

Additional PHYSICS to reach minimum of 28 credits

**Total Credits** **34**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ASTRON, all PHYSICS, and all major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>4</sup>
- 15 credits in ASTRON and PHYSICS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Astronomy–Physics undergraduate advisor(s). Please plan your Senior Honors Thesis research project a year in advance.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ASTRON and PHYSICS courses, and all courses accepted in the major, at the 300 level or higher
- Complete the following coursework:
  - Four 300-level or higher ASTRON courses, with a 3.500 GPA (not including ASTRON 681 and ASTRON 682)
  - A two-semester Senior Honors Thesis in ASTRON 681 and ASTRON 682, with a grade of AB or better (for a total of 6 credits).

## FOOTNOTES

1

ASTRON 103 and ASTRON 104 are not required for majors.

2

ASTRON 310 is a prerequisite for ASTRON 330, ASTRON 335, and ASTRON 500.

3

E M A 201, E M A 202, and M E 240 count toward the 28 credits of PHYSICS requirement. E M A 201 & E M A 202, or E M A 201 & M E 240 count as a first semester, introductory course (e.g., PHYSICS 247, PHYSICS 201, PHYSICS 207).

4

ASTRON 300–699 and PHYSICS 300–699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Learn how astronomical observations are made and data are analyzed.
2. Become familiar with theories and observations of planets, stars, interstellar gas, galaxies, and structure of the Universe (cosmology).
3. Learn how to read and critically evaluate scientific literature.
4. Learn the basics of oral and written scientific communication.
5. Be trained in principles and standards of professional and ethical conduct.
6. Develop the skills to carry out a small independent research project. Learn to define the scope of the project, conduct an effective literature search, perform computations, and analyze data.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (QR-B)		5 MATH 222	4
Biological Science Breadth		3 Biological Science Breadth	3
Humanities Breadth		3 Social Science Breadth	3
Foreign Language (if needed)		4 Foreign Language (if needed)	4
		Communication A	2
	<b>15</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
PHYSICS 247, 201, or 207		5 PHYSICS 248, 202, or 208	5
MATH 234		4 Literature Breadth	3
ASTRON 200		3 Social Science Breadth	4

Foreign Language (if needed)	4 MATH 320 <sup>1</sup>	3
	<b>16</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
PHYSICS 249, 205, or 241	4	PHYSICS 311	3
ASTRON 310	3	ASTRON 320 (or another ASTRON 300 level course)	3
MATH 321 <sup>2</sup>	3	MATH 322 <sup>2</sup>	3
Communication B	3	PHYSICS 322	3
		Literature Breadth	3
	<b>13</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
PHYSICS 448	3	Social Science Breadth	3
ASTRON 465	3	PHYSICS 449	3
Social Science Breadth	3	PHYSICS 415	3
Ethnic Studies	3	Humanities Breadth	3
Elective	3	Astronomy 300 Level OR Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120**

1

Alternatively, students may wish to consider MATH 319 and MATH 340.

2

Students are encouraged to consider MATH 321 and MATH 322 for additional preparation prior to coursework completed in the fourth year of this plan.

## ADVISING AND CAREERS

### ADVISING

We encourage students to meet major advisors as early as possible. For major advising, students should contact the Undergraduate Advisor (<https://www.astro.wisc.edu/undergraduate-program/current-students/#preliminary-and-career-advising>). The undergraduate advisor (via Starfish) can assist students with curriculum and course scheduling, career planning, academic concerns, and overall performance and strategies.

To declare the astronomy-physics major, **first** meet with the undergraduate advisor, then contact the faculty Advisors: Professor Ke Zhang ([ke.zhang@wisc.edu](mailto:ke.zhang@wisc.edu) ([townsend@astro.wisc.edu](mailto:townsend@astro.wisc.edu))) or Professor Snezana Stanimirovic, ([sstanimi@astro.wisc.edu](mailto:sstanimi@astro.wisc.edu)).

### RECOMMENDED ADDITIONAL COURSES

**Math:** Mathematics courses other than those required as prerequisites for PHYSICS courses are not required for the major, but the following courses are recommended: MATH 320 Linear Algebra and Differential Equations OR MATH 319 Techniques in Ordinary Differential Equations and MATH 340 Elementary Matrix and Linear Algebra. If a student plans to work toward the Ph.D degree, the student should also take MATH 321 Applied Mathematical Analysis and MATH 322 Applied Mathematical

Analysis. Additional mathematics (or statistics) courses should be chosen after consultation with the undergraduate advisor.

**Computing:** Computers are fundamental to astronomical research. An introduction through Introduction to Programming, or short courses run by the computing center should be considered. COMP SCI 220 Data Science Programming I is a good option.

**Chemistry:** A college course in physical or organic chemistry is useful for astronomy students. Physical chemistry is particularly valuable for those interested in the interstellar medium, comets, and planets.

**Statistics:** A background in statistics is valuable, particularly for students interested in observational astronomy. STAT 302 Accelerated Introduction to Statistical Methods, or STAT/MATH 309 Introduction to Probability and Mathematical Statistics I/STAT/MATH 310 Introduction to Probability and Mathematical Statistics II for a more solid foundation, are suggested.

**Languages:** Spanish but also, French, German and Russian are also useful foreign languages for astronomy students, but are not required.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:**

Professors Richard Townsend (chair), Amy Barger, Thomas Beatty, Matt Bershad, Elena D'Onghia, Kate Grier, Sebastian Heinz, Alex Lazarian,

Michael Maseda, Bob Mathieu, Snezana Stanimirovic, Christy Tremonti, Susanna Widicus Weaver, Eric Wilcots, Ke Zhang, and Ellen Zweibel

#### Staff:

Department Administrator: Steve Anderson  
 Graduate Program Manager: Heather Sauer  
 Research Administrator: Sophia Didier  
 Building Manager and Purchasing: Rick Williams

See preliminary and career advising (<https://www.astro.wisc.edu/undergraduate-program/current-students/#preliminary-and-career-advising>) for academic advising information.

## ASTRONOMY–PHYSICS, B.S.

### ASTRONOMY

Astronomy, the oldest of the sciences, originated in the human urge to understand the mysterious lights we see in the sky above us—the Sun, the Moon, the planets and the stars. Over the centuries, new tools have become available to study these cosmic icons—telescopes that allow us to see further and fainter, detectors that are sensitive to electromagnetic signals at non-visible wavelengths, and satellites that can observe from outside the confines of the Earth’s atmosphere. These tools have answered many questions, but raised even more. How did the Universe begin, and how did the stars and galaxies within it form? How will it end? Are there habitable planets around other stars—and has life emerged on these planets?

#### WHY STUDY ASTRONOMY?

- Because it’s fascinating: Astronomy speaks directly to our natural urge to better understand our place in the cosmos.
- Because it’s challenging: Astronomy studies objects that are distant beyond simple conception.
- Because it’s adaptable: Astronomy utilizes a broad set of transferable skills, from a foundation in logical and quantitative reasoning through to data analysis, programming, and visualization.

The UW–Madison Astronomy–Physics program builds on a foundation of classical and modern physics, to embark on a comprehensive study of the observable Universe at scales extending from planets and stars, through to galaxies and the cosmic web.

#### A BACHELORS DEGREE FROM THIS STEM PROGRAM CAN:

- Prepare you for graduate studies for master’s or doctoral degrees in experimental or theoretical Astronomy, Astrophysics or Physics.
- Prepare you for employment in industrial or governmental laboratories.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, public policy, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach Astronomy and Physics. To teach these subjects in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

Students who intend to continue astronomy in a graduate program are strongly encouraged to get involved in research early. To learn about research opportunities in the department, please meet with faculty advisors. Please consider applying for Research Experiences for Undergraduates (REU’s) and if interested in department research, visit our webpage (<https://www.astro.wisc.edu/undergraduate-program/current-students/>) and reach out to individual faculty. On our webpage you will find our Undergraduate Student Handbook as well as some of the current research projects.

### HOW TO GET IN

Students who wish to declare the Astronomy–Physics may do so after arriving at UW–Madison (students cannot declare this major as part of their UW–Madison admissions process).

Students are encouraged to declare their major as early as their first year. For pre-major and major advising, students should contact the undergraduate advisor or faculty advisors.

Astronomy–Physics Majors should get started on one of the Introductory Physics sequences as early as possible.

Introductory Physics sequences are:

Code	Title	Credits
Sequence 1:	PHYSICS 247, 248, and 249	
Sequence 2:	PHYSICS 201, 202, and 205	
Sequence 3:	PHYSICS 207, 208, and 241	

### REQUIREMENTS

#### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	Requirements
	• Breadth–Humanities/Literature/Arts: 6 credits
	• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth–Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 34 credits in the field of specialization, with at least 6 of these credits in ASTRON and at least 28 credits in PHYSICS.

### COURSE REQUIREMENTS FOR THE MAJOR ARE:

Code	Title	Credits
<b>Astronomy<sup>1</sup></b>		
<i>Complete at least two of the following:</i>		6
ASTRON 310	Stellar Astrophysics <sup>2</sup>	
ASTRON 320	The Interstellar Medium	
ASTRON 330	Galaxies <sup>2</sup>	
ASTRON 335	Cosmology <sup>2</sup>	
ASTRON 340	Solar System Astrophysics	
ASTRON 500	Techniques of Modern Observational Astrophysics <sup>2</sup>	
<b>Physics</b>		
<i>Complete one of the following sequences for Introductory Physics:<sup>3</sup></i>		28
<i>Sequence 1:</i>		
PHYSICS 247 & PHYSICS 248 & PHYSICS 249	A Modern Introduction to Physics and A Modern Introduction to Physics and A Modern Introduction to Physics	
<i>Sequence 2:</i>		
PHYSICS 201 & PHYSICS 202 & PHYSICS 205	General Physics and General Physics and Modern Physics for Engineers	
<i>Sequence 3:</i>		
PHYSICS 207 & PHYSICS 208 & PHYSICS 241	General Physics and General Physics and Introduction to Modern Physics	
<i>Mechanics, Electromagnetic Fields, &amp; Thermal Physics (complete all):</i>		
PHYSICS 311	Mechanics	
PHYSICS 322	Electromagnetic Fields	
PHYSICS 415	Thermal Physics	
<i>Atomic &amp; Quantum Physics (complete either):</i>		
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics	
<i>or</i>		
PHYSICS 531	Introduction to Quantum Mechanics	
<i>Complete one 300-level or higher laboratory course:</i>		
ASTRON 465	Observational Astronomy and Data Analysis	
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	
<i>Additional PHYSICS to reach minimum of 28 credits</i>		
<b>Total Credits</b>		<b>34</b>

### RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ASTRON, all PHYSICS, and all major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>4</sup>
- 15 credits in ASTRON and PHYSICS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Astronomy–Physics undergraduate advisor(s). Please plan your Senior Honors Thesis research project a year in advance.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ASTRON and PHYSICS courses, and all courses accepted in the major, at the 300 level or higher
- Complete the following coursework:
  - Four 300-level or higher ASTRON courses, with a 3.500 GPA (not including ASTRON 681 and ASTRON 682)
  - A two-semester Senior Honors Thesis in ASTRON 681 and ASTRON 682, with a grade of AB or better (for a total of 6 credits).

## FOOTNOTES

1

ASTRON 103 and ASTRON 104 are not required for majors.

2

ASTRON 310 is a prerequisite for ASTRON 330, ASTRON 335, and ASTRON 500.

3

E M A 201, E M A 202, and M E 240 count toward the 28 credits of PHYSICS requirement. E M A 201 & E M A 202, or E M A 201 & M E 240 count as a first semester, introductory course (e.g., PHYSICS 247, PHYSICS 201, PHYSICS 207).

4

ASTRON 300–699 and PHYSICS 300–699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Learn how astronomical observations are made and data are analyzed.
2. Become familiar with theories and observations of planets, stars, interstellar gas, galaxies, and structure of the Universe (cosmology).
3. Learn how to read and critically evaluate scientific literature.
4. Learn the basics of oral and written scientific communication.
5. Be trained in principles and standards of professional and ethical conduct.
6. Develop the skills to carry out a small independent research project. Learn to define the scope of the project, conduct an effective literature search, perform computations, and analyze data.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (QR-B)		5 MATH 222	4
Biological Science Breadth		3 Biological Science Breadth	3
Humanities Breadth		3 Social Science Breadth	3
Foreign Language (if needed)		4 Foreign Language (if needed)	4
		Communication A	2
	<b>15</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
PHYSICS 247, 201, or 207		5 PHYSICS 248, 202, or 208	5
MATH 234		4 Literature Breadth	3
ASTRON 200		3 Social Science Breadth	4
Foreign Language (if needed)		4 MATH 320 <sup>1</sup>	3
	<b>16</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
PHYSICS 249, 205, or 241		4 PHYSICS 311	3
ASTRON 310		3 ASTRON 320 (or another ASTRON 300 level course)	3
MATH 321 <sup>2</sup>		3 MATH 322 <sup>2</sup>	3
Communication B		3 PHYSICS 322	3



		Literature Breadth	3
		<b>13</b>	<b>15</b>
<b>Fourth Year</b>			
Fall	Credits	Spring	Credits
PHYSICS 448	3	Social Science Breadth	3
ASTRON 465	3	PHYSICS 449	3
Social Science Breadth	3	PHYSICS 415	3
Ethnic Studies	3	Humanities Breadth	3
Elective	3	Astronomy 300 Level OR Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

1

Alternatively, students may wish to consider MATH 319 and MATH 340.

2

Students are encouraged to consider MATH 321 and MATH 322 for additional preparation prior to coursework completed in the fourth year of this plan.

## ADVISING AND CAREERS

### ADVISING

We encourage students to meet major advisors as early as possible. For major advising, students should contact the Undergraduate Advisor (<https://www.astro.wisc.edu/undergraduate-program/current-students/#preliminary-and-career-advising>). The undergraduate advisor (via Starfish) can assist students with curriculum and course scheduling, career planning, academic concerns, and overall performance and strategies.

To declare the astronomy-physic major, **first** meet with the undergraduate advisor, then contact the faculty Advisors: Professor Ke Zhang ([ke.zhang@wisc.edu](mailto:ke.zhang@wisc.edu) ([townsend@astro.wisc.edu](mailto:townsend@astro.wisc.edu))) or Professor Snezana Stanimirovic, ([sstanimi@astro.wisc.edu](mailto:sstanimi@astro.wisc.edu)).

### RECOMMENDED ADDITIONAL COURSES

**Math:** Mathematics courses other than those required as prerequisites for PHYSICS courses are not required for the major, but the following courses are recommended: MATH 320 Linear Algebra and Differential Equations OR MATH 319 Techniques in Ordinary Differential Equations and MATH 340 Elementary Matrix and Linear Algebra. If a student plans to work toward the Ph.D degree, the student should also take MATH 321 Applied Mathematical Analysis and MATH 322 Applied Mathematical Analysis. Additional mathematics (or statistics) courses should be chosen after consultation with the undergraduate advisor.

**Computing:** Computers are fundamental to astronomical research. An introduction through Introduction to Programming, or short courses run by the computing center should be considered. COMP SCI 220 Data Science Programming I is a good option.

**Chemistry:** A college course in physical or organic chemistry is useful for astronomy students. Physical chemistry is particularly valuable for those interested in the interstellar medium, comets, and planets.

**Statistics:** A background in statistics is valuable, particularly for students interested in observational astronomy. STAT 302 Accelerated Introduction

to Statistical Methods, or STAT/MATH 309 Introduction to Probability and Mathematical Statistics I/STAT/MATH 310 Introduction to Probability and Mathematical Statistics II for a more solid foundation, are suggested.

**Languages:** Spanish but also, French, German and Russian are also useful foreign languages for astronomy students, but are not required.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### Faculty:

Professors Richard Townsend (chair), Amy Barger, Thomas Beatty, Matt Bershady, Elena D'Onghia, Kate Grier, Sebastian Heinz, Alex Lazarian, Michael Maseda, Bob Mathieu, Snezana Stanimirovic, Christy Tremonti, Susanna Widicus Weaver, Eric Wilcots, Ke Zhang, and Ellen Zweibel

### Staff:

Department Administrator: Steve Anderson  
 Graduate Program Manager: Heather Sauer  
 Research Administrator: Sophia Didier  
 Building Manager and Purchasing: Rick Williams

See preliminary and career advising (<https://www.astro.wisc.edu/undergraduate-program/current-students/#preliminary-and-career-advising>) for academic advising information.

## ATMOSPHERIC AND OCEANIC SCIENCES

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

### DEGREES/MAJORS/CERTIFICATES

- Atmospheric and Oceanic Sciences, B.A. (p. 506)
- Atmospheric and Oceanic Sciences, B.S. (p. 511)
- Environmental Sciences, B.A. (L&S) (p. 516)
- Environmental Sciences, B.S. (L&S) (p. 525)

### PEOPLE

#### EXECUTIVE COMMITTEE

Balster, Nick, Associate Professor, Department of Soil Science  
Martin, Jonathan, Professor, Department of Atmospheric and Oceanic Sciences

Thompson, Anita, Professor, Department of Biological Systems Engineering

#### PROGRAM COMMITTEE

Nick Balster, Professor, Department of Soil Science (Co-Chair)  
Ken Ferrier, Associate Professor, Department of Geoscience  
Zac Freedman, Assistant Professor, Department of Soil Science  
Hazel M. Holden, Professor, Department of Biochemistry  
Jonathan Martin, Professor, Department of Atmospheric and Oceanic Sciences (Co-Chair)  
Erin Silva, Associate Professor, Department of Plant Pathology

#### Staff Advisors

Kathryn Jones, Academic Advising Manager (CALs)

TBA, Academic Advising Manager (L&S)

## ATMOSPHERIC AND OCEANIC SCIENCES, B.A.

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

### HOW TO GET IN

Students wishing to declare the Atmospheric and Oceanic Sciences major should meet with an AOS undergraduate academic advisor. Contact information for advisors can be found on the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/atmospheric-oceanic-sciences/atmospheric-oceanic-sciences-bs/#advisingandcareerstext>) page.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Calculus (complete all):</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4
<b>Physics (complete one course from each group):</b>		
PHYSICS 207 or PHYSICS 201 or PHYSICS 247	General Physics General Physics A Modern Introduction to Physics	5
PHYSICS 208 or PHYSICS 202 or PHYSICS 248	General Physics General Physics A Modern Introduction to Physics	5
<b>Computer Sciences (complete one):</b>		<b>3</b>
COMP SCI 220	Data Science Programming I	
COMP SCI 310	Problem Solving Using Computers	
COMP SCI 320	Data Science Programming II	
COMP SCI/ E C E 354	Machine Organization and Programming	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/ I SY E/ MATH 425	Introduction to Combinatorial Optimization	
<b>Total Credits</b>		<b>26</b>

Code	Title	Credits
<b>Core Sequence (complete all):</b>		
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	3
ATM OCN 330	Physics of the Atmosphere and Ocean I	3
ATM OCN 340	Physics of the Atmosphere and Ocean II	3
<b>Quantitative Analysis (complete one):</b>		<b>3</b>
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/ I SY E/ MATH/STAT 525	Linear Optimization	
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	

MATH 319	Techniques in Ordinary Differential Equations	MATH 542	Modern Algebra
MATH 320	Linear Algebra and Differential Equations	MATH 551	Elementary Topology
MATH 321	Applied Mathematical Analysis	MATH 552	Elementary Geometric and Algebraic Topology
MATH 322	Applied Mathematical Analysis	MATH 561	Differential Geometry
MATH 331	Introductory Probability	MATH 567	Modern Number Theory
MATH 340	Elementary Matrix and Linear Algebra	MATH 570	Fundamentals of Set Theory
MATH 341	Linear Algebra	MATH/ PHILOS 571	Mathematical Logic
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	MATH 605	Stochastic Methods for Biology
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	MATH 607	Topics in Mathematics Study Abroad
MATH 407	Topics in Mathematics Study Abroad	MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology
MATH 415	Applied Dynamical Systems, Chaos and Modeling	MATH 619	Analysis of Partial Differential Equations
MATH 421	The Theory of Single Variable Calculus	MATH 621	Introduction to Manifolds
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	MATH 623	Complex Analysis
MATH/STAT 431	Introduction to the Theory of Probability	MATH 627	Introduction to Fourier Analysis
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography	MATH 629	Introduction to Measure and Integration
MATH 441	Introduction to Modern Algebra	MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 443	Applied Linear Algebra	STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
MATH 461	College Geometry I	STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
MATH 467	Introduction to Number Theory	STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
MATH/ CURRIC 471	Mathematics for Secondary School Teachers	STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
MATH/ HIST SCI 473	History of Mathematics	STAT 324	Introductory Applied Statistics for Engineers
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	STAT 327	Learning a Statistical Language
MATH 490	Undergraduate Seminar	STAT 333	Applied Regression Analysis
MATH 491	Topics in Undergraduate Mathematics	STAT 340	Data Science Modeling II
MATH/ COMP SCI 513	Numerical Linear Algebra	STAT 349	Introduction to Time Series
MATH/ COMP SCI 514	Numerical Analysis	STAT 351	Introductory Nonparametric Statistics
MATH 519	Ordinary Differential Equations	STAT 360	Topics in Statistics Study Abroad
MATH 521	Analysis I	STAT 371	Introductory Applied Statistics for the Life Sciences
MATH 522	Analysis II	STAT 411	An Introduction to Sample Survey Theory and Methods
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization	STAT 421	Applied Categorical Data Analysis
MATH 531	Probability Theory	STAT/M E 424	Statistical Experimental Design
MATH 535	Mathematical Methods in Data Science	STAT/MATH 431	Introduction to the Theory of Probability
MATH 540	Linear Algebra II	STAT 456	Applied Multivariate Analysis
MATH 541	Modern Algebra	STAT 461	Financial Statistics
		STAT/ COMP SCI 471	Introduction to Computational Statistics
		STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
		STAT 479	Special Topics in Statistics

STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization
STAT/B M I 541	Introduction to Biostatistics
STAT/B M I 542	Introduction to Clinical Trials I
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I
STAT/F&W ECOL/ HORT 572	Statistical Methods for Bioscience II
STAT 575	Statistical Methods for Spatial Data
STAT 601	Statistical Methods I
STAT 602	Statistical Methods II
STAT 605	Data Science Computing Project
STAT 609	Mathematical Statistics I
STAT 610	Introduction to Statistical Inference
STAT 615	Statistical Learning
STAT 627	Professional Skills in Data Science
STAT 628	Data Science Practicum
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes
STAT/B M I 641	Statistical Methods for Clinical Trials
STAT/B M I 642	Statistical Methods for Epidemiology
STAT 679	Special Topics in Statistics
STAT 681	Senior Honors Thesis
STAT 682	Senior Honors Thesis
<b>Capstone</b>	
ATM OCN 405	AOS Senior Capstone Seminar 1
<b>Electives</b> 11	
ATM OCN 401	Topics in Meteorology
ATM OCN 404	Meteorological Measurements
ATM OCN 425	Global Climate Processes
ATM OCN 441	Radar and Satellite Meteorology
ATM OCN 452	Synoptic Laboratory I: The Frontal Cyclone
ATM OCN 453	Synoptic Laboratory II: Mesoscale Meteorology
ATM OCN/ ENVIR ST 520	Bioclimatology
ATM OCN 522	Tropical Meteorology
ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change
ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
ATM OCN 573	Computational Methods in Atmospheric and Oceanic Sciences
ATM OCN 575	Climatological Analysis
ATM OCN 610	Geophysical Fluid Dynamics I
ATM OCN 611	Geophysical Fluid Dynamics II
ATM OCN 615	Laboratory in Rotating Fluid Dynamics

ATM OCN 630	Introduction to Atmospheric and Oceanic Physics
ATM OCN 637	Cloud Physics
ATM OCN 638	Atmospheric Chemistry
ATM OCN 640	Radiation in the Atmosphere and Ocean
ATM OCN 651	Synoptic-Dynamic Laboratory
ATM OCN 660	Introduction to Physical Oceanography
ATM OCN 681	Senior Honors Thesis
ATM OCN 682	Senior Honors Thesis
ATM OCN 691	Senior Thesis
ATM OCN 692	Senior Thesis
ATM OCN 698	Directed Study <sup>2</sup>
ATM OCN 699	Directed Study <sup>2</sup>

**Total Credits** 27

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ATM OCN and major courses
- 2.000 GPA on 15 upper-level credits in the major, taken in Residence. <sup>3</sup>
- 15 credits in ATM OCN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Atmospheric and Oceanic Sciences Major in consultation with the Atmospheric and Oceanic Sciences undergraduate advisor.

## REQUIREMENTS

To earn Honors in the Major in Atmospheric and Oceanic Sciences, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all ATM OCN courses, and all courses accepted in the major
- Complete the following additional coursework:
  - ATM OCN 610 or ATM OCN 611 and
  - ATM OCN 681 and ATM OCN 682 for a total of 6 credits

## FOOTNOTES

1

Note that core sequence begins in the fall semester only.

2

A maximum 2 credits of Electives may come from Internship or Directed Study courses.

3

ATM OCN 300 through ATM OCN 699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize and describe the fundamental principles and processes associated with the dynamics and thermodynamics of geophysical fluid flows, the basic physics of clouds, aerosols, and precipitation.
2. Recognize and describe the fundamental principles and processes associated with radiation and atmospheric and oceanic radiative transfer.
3. Demonstrate critical thinking skills by identifying a problem, identifying the required information to solve that problem; and formulating and interpreting solutions to that problem using appropriate analytical and/or computational techniques.
4. Apply diagnostic tools to analyses and numerical model output to diagnose, describe, and interpret the fundamental dynamical and thermodynamical processes at work in synoptic-scale, mesoscale, and large-scale weather systems and climate circulations.
5. Apply fundamental radiative transfer theory to interpret remotely-sensed observations of atmospheric and oceanic phenomena.
6. Design and conduct experiments and/or analyze data to test hypotheses in an area of atmospheric or climate sciences.
7. Demonstrate effective scientific communication skills through development and delivery of oral presentations (including poster presentations) and written reports and case studies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (QR-B)	5	MATH 222	4
ATM OCN 100 or 101	4	ATM OCN/ENVIR ST 171 (Comm B)	3
Communication A	3	Literature Breadth	3
Foreign Language	4	Biological Science Breadth	3
<b>16</b>		<b>13</b>	

#### Second Year

Fall	Credits	Spring	Credits
MATH 234	4	Humanities Breadth	3
PHYSICS 207	5	PHYSICS 208	5
Biological Science Breadth	3	COMP SCI 220	4
Ethnic Studies	4	Social Science Breadth	3
<b>16</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
ATM OCN 310	3	ATM OCN 311	3
ATM OCN 330	3	ATM OCN 340	3
Literature Breadth	3	Biological Science Breadth	3
ADV MATH/COMP SCI/STATS	3	Humanities Breadth	3
Social Science Breadth	4	Elective	3
<b>16</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
ATM OCN 400 or higher	3	ATM OCN numbered 400 or higher	3
ATM OCN 400 or higher	4	ATM OCN numbered 400 level or higher	4
Elective	4	ATM OCN 699 (or elective)	3
Social Science Breadth	4	ATM OCN 405	1
		Elective	3
<b>15</b>		<b>14</b>	

**Total Credits 120**

## ADVISING AND CAREERS

### GENERAL ADVISING

Any student interested in the atmospheric and oceanic sciences major should meet with the AOS undergraduate advisor to discuss steps to complete the necessary prerequisite coursework for the major. A Major Declaration Form must be completed by the student and authorized by Professor Stephanie Henderson to complete the major declaration process. Professor Henderson can be reached at 608-265-3583 or [sahenderson@wisc.edu](mailto:sahenderson@wisc.edu) ([mcmorgan@wisc.edu](mailto:mcmorgan@wisc.edu)). Students should bring a current DARS report to their individual advising appointment.

## CAREER ADVISING

The Department of Atmospheric and Oceanic Sciences encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Ackerman, Steve  
 Back, Larissa  
 Desai, Ankur (Chair)  
 Hitchman, Matt  
 Holloway, Tracey  
 L'Ecuyer, Tristan  
 Martin, Jonathan  
 Petty, Grant  
 Pierce, Brad  
 Vimont, Dan

### ASSISTANT PROFESSORS

Adames-Corraliza, Ángel  
 Henderson, Stephanie

Maroon, Elizabeth  
 Oyola, Mayra  
 Rowe, Angela  
 Wagner, Till  
 Zankowski, Hannah

## ATMOSPHERIC AND OCEANIC SCIENCES, B.S.

The study of atmospheric and oceanic sciences includes all aspects of the atmosphere and physical oceanography, their mutual interaction, and their interaction with space and the rest of the earth system. Although a primary goal is to understand the atmosphere and ocean for the purpose of predicting the weather, atmospheric and oceanic sciences embraces much more: motions at large, medium, and small scales; past, present, and future climates; air chemistry and quality; clouds and precipitation; and solar and terrestrial radiation. In many areas, new remote-sensing technology including satellites is used to provide circulation patterns at both global and local scales.

Many undergraduates take an elementary atmospheric and oceanic sciences course to meet part of their natural or physical science breadth requirements. Other students, who have had sufficient mathematics and physics preparation, take higher-level atmospheric and oceanic sciences courses to complement their major work in other fields of natural science. An atmospheric and oceanic sciences major receives a thorough introduction to the basic concepts and tools in the core courses, which cover the physics and dynamics of the atmosphere and ocean. An array of elective courses are offered in the senior year, with tracks in the areas of weather systems, earth/environmental science, and general and applied atmospheric and oceanic sciences. Elective groups are tailored individually. Some students will want preparation for careers in areas such as operational forecasting, environmental consulting, and broadcasting. Others will seek preparation for graduate work leading to a broader range of careers.

## HOW TO GET IN

Students wishing to declare the Atmospheric and Oceanic Sciences major should meet with an AOS undergraduate academic advisor. Contact information for advisors can be found on the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/atmospheric-oceanic-sciences/atmospheric-oceanic-sciences-bs/#advisingandcareerstext>) page.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Calculus (complete all):</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4
<b>Physics (complete one course from each group):</b>		
PHYSICS 207	General Physics	5
or PHYSICS 201	General Physics	
or PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 208	General Physics	5
or PHYSICS 202	General Physics	
or PHYSICS 248	A Modern Introduction to Physics	
<b>Computer Sciences (complete one):</b>		<b>3</b>
COMP SCI 220	Data Science Programming I	
COMP SCI 310	Problem Solving Using Computers	
COMP SCI 320	Data Science Programming II	
COMP SCI/ E C E 354	Machine Organization and Programming	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/ I SY E/ MATH 425	Introduction to Combinatorial Optimization	
<b>Total Credits</b>		<b>26</b>

Code	Title	Credits
<b>Core Sequence (complete all):</b>		
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	3
ATM OCN 330	Physics of the Atmosphere and Ocean I	3
ATM OCN 340	Physics of the Atmosphere and Ocean II	3
<b>Quantitative Analysis (complete one):</b>		<b>3</b>
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/ I SY E/ MATH/STAT 525	Linear Optimization	
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	



MATH 319	Techniques in Ordinary Differential Equations	MATH 542	Modern Algebra
MATH 320	Linear Algebra and Differential Equations	MATH 551	Elementary Topology
MATH 321	Applied Mathematical Analysis	MATH 552	Elementary Geometric and Algebraic Topology
MATH 322	Applied Mathematical Analysis	MATH 561	Differential Geometry
MATH 331	Introductory Probability	MATH 567	Modern Number Theory
MATH 340	Elementary Matrix and Linear Algebra	MATH 570	Fundamentals of Set Theory
MATH 341	Linear Algebra	MATH/ PHILOS 571	Mathematical Logic
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	MATH 605	Stochastic Methods for Biology
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	MATH 607	Topics in Mathematics Study Abroad
MATH 407	Topics in Mathematics Study Abroad	MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology
MATH 415	Applied Dynamical Systems, Chaos and Modeling	MATH 619	Analysis of Partial Differential Equations
MATH 421	The Theory of Single Variable Calculus	MATH 621	Introduction to Manifolds
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	MATH 623	Complex Analysis
MATH/STAT 431	Introduction to the Theory of Probability	MATH 627	Introduction to Fourier Analysis
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography	MATH 629	Introduction to Measure and Integration
MATH 441	Introduction to Modern Algebra	MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 443	Applied Linear Algebra	STAT/MATH 309	Introduction to Probability and Mathematical Statistics I
MATH 461	College Geometry I	STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
MATH 467	Introduction to Number Theory	STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
MATH/ CURRIC 471	Mathematics for Secondary School Teachers	STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
MATH/ HIST SCI 473	History of Mathematics	STAT 324	Introductory Applied Statistics for Engineers
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	STAT 327	Learning a Statistical Language
MATH 490	Undergraduate Seminar	STAT 333	Applied Regression Analysis
MATH 491	Topics in Undergraduate Mathematics	STAT 340	Data Science Modeling II
MATH/ COMP SCI 513	Numerical Linear Algebra	STAT 349	Introduction to Time Series
MATH/ COMP SCI 514	Numerical Analysis	STAT 351	Introductory Nonparametric Statistics
MATH 519	Ordinary Differential Equations	STAT 360	Topics in Statistics Study Abroad
MATH 521	Analysis I	STAT 371	Introductory Applied Statistics for the Life Sciences
MATH 522	Analysis II	STAT 411	An Introduction to Sample Survey Theory and Methods
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization	STAT 421	Applied Categorical Data Analysis
MATH 531	Probability Theory	STAT/M E 424	Statistical Experimental Design
MATH 535	Mathematical Methods in Data Science	STAT/MATH 431	Introduction to the Theory of Probability
MATH 540	Linear Algebra II	STAT 456	Applied Multivariate Analysis
MATH 541	Modern Algebra	STAT 461	Financial Statistics
		STAT/ COMP SCI 471	Introduction to Computational Statistics
		STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
		STAT 479	Special Topics in Statistics

STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization	
STAT/B M I 541	Introduction to Biostatistics	
STAT/B M I 542	Introduction to Clinical Trials I	
STAT/F&W ECOL/ HORT 571	Statistical Methods for Bioscience I	
STAT/F&W ECOL/ HORT 572	Statistical Methods for Bioscience II	
STAT 575	Statistical Methods for Spatial Data	
STAT 601	Statistical Methods I	
STAT 602	Statistical Methods II	
STAT 605	Data Science Computing Project	
STAT 609	Mathematical Statistics I	
STAT 610	Introduction to Statistical Inference	
STAT 615	Statistical Learning	
STAT 627	Professional Skills in Data Science	
STAT 628	Data Science Practicum	
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT/B M I 642	Statistical Methods for Epidemiology	
STAT 679	Special Topics in Statistics	
STAT 681	Senior Honors Thesis	
STAT 682	Senior Honors Thesis	
<b>Capstone</b>		
ATM OCN 405	AOS Senior Capstone Seminar	1
<b>Electives</b> <b>11</b>		
ATM OCN 401	Topics in Meteorology	
ATM OCN 404	Meteorological Measurements	
ATM OCN 425	Global Climate Processes	
ATM OCN 441	Radar and Satellite Meteorology	
ATM OCN 452	Synoptic Laboratory I: The Frontal Cyclone	
ATM OCN 453	Synoptic Laboratory II: Mesoscale Meteorology	
ATM OCN/ ENVIR ST 520	Bioclimatology	
ATM OCN 522	Tropical Meteorology	
ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change	
ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics	
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	
ATM OCN 573	Computational Methods in Atmospheric and Oceanic Sciences	
ATM OCN 575	Climatological Analysis	
ATM OCN 610	Geophysical Fluid Dynamics I	
ATM OCN 611	Geophysical Fluid Dynamics II	
ATM OCN 615	Laboratory in Rotating Fluid Dynamics	

ATM OCN 630	Introduction to Atmospheric and Oceanic Physics
ATM OCN 637	Cloud Physics
ATM OCN 638	Atmospheric Chemistry
ATM OCN 640	Radiation in the Atmosphere and Ocean
ATM OCN 651	Synoptic-Dynamic Laboratory
ATM OCN 660	Introduction to Physical Oceanography
ATM OCN 681	Senior Honors Thesis
ATM OCN 682	Senior Honors Thesis
ATM OCN 691	Senior Thesis
ATM OCN 692	Senior Thesis
ATM OCN 698	Directed Study <sup>2</sup>
ATM OCN 699	Directed Study <sup>2</sup>

**Total Credits****27****RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all ATM OCN and major courses
- 2.000 GPA on 15 upper-level credits in the major, taken in Residence. <sup>3</sup>
- 15 credits in ATM OCN, taken on campus

**HONORS IN THE MAJOR**

Students may declare Honors in the Atmospheric and Oceanic Sciences Major in consultation with the Atmospheric and Oceanic Sciences undergraduate advisor.

**REQUIREMENTS**

To earn Honors in the Major in Atmospheric and Oceanic Sciences, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all ATM OCN courses, and all courses accepted in the major
- Complete the following additional coursework:
  - ATM OCN 610 or ATM OCN 611 and
  - ATM OCN 681 and ATM OCN 682 for a total of 6 credits

**FOOTNOTES****1**

Note that core sequence begins in the fall semester only.

**2**

A maximum 2 credits of Electives may come from Internship or Directed Study courses.

**3**

ATM OCN 300 through ATM OCN 699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize and describe the fundamental principles and processes associated with the dynamics and thermodynamics of geophysical fluid flows, the basic physics of clouds, aerosols, and precipitation.
2. Recognize and describe the fundamental principles and processes associated with radiation and atmospheric and oceanic radiative transfer.
3. Demonstrate critical thinking skills by identifying a problem, identifying the required information to solve that problem; and formulating and interpreting solutions to that problem using appropriate analytical and/or computational techniques.
4. Apply diagnostic tools to analyses and numerical model output to diagnose, describe, and interpret the fundamental dynamical and thermodynamical processes at work in synoptic-scale, mesoscale, and large-scale weather systems and climate circulations.
5. Apply fundamental radiative transfer theory to interpret remotely-sensed observations of atmospheric and oceanic phenomena.
6. Design and conduct experiments and/or analyze data to test hypotheses in an area of atmospheric or climate sciences.
7. Demonstrate effective scientific communication skills through development and delivery of oral presentations (including poster presentations) and written reports and case studies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (QR-B)	5	MATH 222	4
ATM OCN 100 or 101	4	ATM OCN/ENVIR ST 171 (Comm B)	3
Communication A	3	Literature Breadth	3
Foreign Language	4	Biological Science Breadth	3
<b>16</b>		<b>13</b>	

#### Second Year

Fall	Credits	Spring	Credits
MATH 234	4	Humanities Breadth	3
PHYSICS 207	5	PHYSICS 208	5
Biological Science Breadth	3	COMP SCI 220	4
Ethnic Studies	4	Social Science Breadth	3
<b>16</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
ATM OCN 310	3	ATM OCN 311	3
ATM OCN 330	3	ATM OCN 340	3
Literature Breadth	3	Biological Science Breadth	3
ADV MATH/COMP SCI/STATS	3	Humanities Breadth	3
Social Science Breadth	4	Elective	3
<b>16</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
ATM OCN 400 or higher	3	ATM OCN numbered 400 or higher	3
ATM OCN 400 or higher	4	ATM OCN numbered 400 level or higher	4
Elective	4	ATM OCN 699 (or elective)	3
Social Science Breadth	4	ATM OCN 405	1
		Elective	3
<b>15</b>		<b>14</b>	

**Total Credits 120**

## ADVISING AND CAREERS

### GENERAL ADVISING

Any student interested in the atmospheric and oceanic sciences major should meet with the AOS undergraduate advisor to discuss steps to complete the necessary prerequisite coursework for the major. A Major Declaration Form must be completed by the student and authorized by Professor Stephanie Henderson to complete the major declaration process. Professor Henderson can be reached at 608-265-3583 or [sahenderson@wisc.edu](mailto:sahenderson@wisc.edu) ([mcmorgan@wisc.edu](mailto:mcmorgan@wisc.edu)). Students should bring a current DARS report to their individual advising appointment.

## CAREER ADVISING

The Department of Atmospheric and Oceanic Sciences encourages majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Ackerman, Steve  
 Back, Larissa  
 Desai, Ankur (Chair)  
 Hitchman, Matt  
 Holloway, Tracey  
 L'Ecuyer, Tristan  
 Martin, Jonathan  
 Petty, Grant  
 Pierce, Brad  
 Vimont, Dan

### ASSISTANT PROFESSORS

Adames-Corraliza, Ángel  
 Henderson, Stephanie

Maroon, Elizabeth  
 Oyola, Mayra  
 Rowe, Angela  
 Wagner, Till  
 Zankowski, Hannah

## ENVIRONMENTAL SCIENCES, B.A. (L&S)

The Environmental Sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in Environmental Sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences and the College of Letters & Science.

The Environmental Sciences major can be earned in either the College of Agricultural and Life Sciences (CALs) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CALs and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CALs, the major is housed in the Department of Soil Science.
- In L&S, the major is housed in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including Life Sciences Communication, Biology, Community & Environmental Sociology, Soil Science, foreign language/culture, and a number of other disciplines.

## HOW TO GET IN

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found on the Advising page.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students majoring in Environmental Sciences must complete a minimum of 59 credits (detailed below)

### MATHEMATICS AND STATISTICS

Code	Title	Credits
Complete one of the following:		5–10
MATH 221	Calculus and Analytic Geometry I (Recommended)	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 211	Calculus	
Complete one of the following:		3–4
STAT 240	Data Science Modeling I	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8–14</b>

### CHEMISTRY

Code	Title	Credits
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II or Advanced General Chemistry	5–9
Complete one of the following:		3
CHEM 341	Elementary Organic Chemistry	
CHEM 343	Organic Chemistry I	
<b>Total Credits</b>		<b>8–12</b>

### BIOLOGY

Code	Title	Credits
Complete one of the following:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	

BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	
<b>Total Credits</b>		<b>10</b>

### PHYSICS

Code	Title	Credits
Complete one of the following: 4-5		
PHYSICS 207	General Physics (recommended)	
PHYSICS 201	General Physics	
PHYSICS 103	General Physics	
<b>Total Credits</b>		<b>4-5</b>

### MAJOR FOUNDATION

Code	Title	Credits
Complete one of the following: 3-5		
ENVIR ST/ILS 126	Principles of Environmental Science	
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOSCI/ ENVIR ST 106	Environmental Geology	
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource	
SOIL SCI 250	Introduction to Environmental Science	
<b>Total Credits</b>		<b>3-5</b>

### MAJOR CORE

Complete at least one course and 3 credits from each of these following areas:

#### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1

ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

#### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3

BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
COMP SCI 220	Data Science Programming I	4
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3

GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 411	Energy Resources	3
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4

URB R PL/ Government and Natural Resources 3-4  
 ECON/ENVIR ST/  
 POLI SCI 449

## MAJOR ELECTIVES

There are two ways to complete this requirement, either by distributing 12 credits across at least three categories, or by concentrating those credits in a single category.<sup>1</sup>

### DISTRIBUTED Electives

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

Ecology		
Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3

LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1



SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### FOCUSED Electives

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3

ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3

SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
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### Geospatial Sciences

Code	Title	Credits
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3

C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 411	Energy Resources	3
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

1

Students may consult their environmental sciences advisor regarding alternate ways to complete the major electives requirement.

## CAPSTONE <sup>2</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
CIV ENGR 515	Hydroclimatology for Water Resources Management	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 668	Restoration Ecology	3
PL PATH 315	Plant Microbiomes	4
SOIL SCI 499	Soil Management	3

2

Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee. Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA and 15 credits of upper level major courses taken in residence <sup>3</sup>
- 15 credits in the major taken on the UW-Madison campus

3

Major courses numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Honors in the Major is not available in Environmental Sciences.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and

their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.

- Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.
- Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).
- Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109	4	CHEM 104	5
MATH 114 or 171	5	MATH 221 or 217	5
Foreign Language	4	Environmental Sciences Foundation Course	3
Comm A	3	Foreign Language	4
<b>16</b>		<b>17</b>	

#### Second Year

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 or BOTANY 130	5	BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 (or BIOLOGY 152)	5
CHEM 341, 343, or 561	3	STAT 371	3
Social Science Course	3	Humanities/Ethnic Studies Course	4
Literature Course	3	Elective	3
INTER-LS 210	1		
<b>15</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
PHYSICS 207, 201, or 103	5	Major Core Course	3
Major Core Course	3	Major Core Course	4
Major Core Course	3	Literature Course	3
Social Science Course	3	Elective	3
		Elective	2
<b>14</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
Environmental Sciences Major Elective Course	3	Environmental Sciences Major Elective Course	3
Environmental Sciences Major Elective Course	3	Social Science Course	3
Capstone	3	Environmental Sciences Major Elective Course	4
Elective	3	Humanities Course	3
Social Science Course	3		
<b>15</b>		<b>13</b>	

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosci.wisc.edu/advising/>).

CALS undergraduate students interested in pursuing the Environmental Sciences major in the College of Agricultural and Life Sciences should contact Zach Wyman, [zwyman@wisc.edu](mailto:zwyman@wisc.edu) (njbalster@wisc.edu)wisc.edu ([zwyman@wisc.edu](mailto:zwyman@wisc.edu)) or 608-265-2925.

L&S undergraduate students interested in pursuing the Environmental Sciences major in the College of Letters & Science should contact the faculty advisor.

### CAREERS

A major in Environmental Sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, park ranger, agricultural technician, air and water quality manager, environmental analyst, air pollution analyst, environmental consultant, environmental educator, GIS analyst, project manager, hazardous waste manager, hydrologist, environmental lawyer, soil conservation technician, and natural resource specialist. For more info about careers, please visit our website (<http://envirosci.wisc.edu/careers-internships/>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

and choose the college from which they would prefer to earn their degree; students may choose only one degree "home."

- In CALS, the major is housed in the Department of Soil Science.
- In L&S, the major is housed in the Department of Atmospheric and Oceanic Sciences.

The major can be taken as a stand-alone or as a double major with a variety of other majors on campus including Life Sciences Communication, Biology, Community & Environmental Sociology, Soil Science, foreign language/culture, and a number of other disciplines.

## HOW TO GET IN

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found on the Advising page.

## PEOPLE

### PROGRAM COMMITTEE

Nick Balster, Professor, Department of Soil Science (Co-Chair)  
 Ken Ferrier, Associate Professor, Department of Geoscience  
 Zac Freedman, Assistant Professor, Department of Soil Science  
 Hazel M. Holden, Professor, Department of Biochemistry  
 Erin Silva, Associate Professor, Department of Plant Pathology  
 Daniel J. Vimont, Professor, Department of Atmospheric and Oceanic Sciences (Co-Chair)

### Staff Advisors

Zach Wyman, Academic Advising Manager (CALS)  
 Sabrina Manero, Academic Advising Manager (L&S)

## ENVIRONMENTAL SCIENCES, B.S. (L&S)

The Environmental Sciences major satisfies the growing demand among entry-level students for a rigorous, science-based program that promotes critical thinking and emphasizes environmental problem solving in service to society. The program is designed to prepare graduates who will be highly competitive for entry-level positions in nonprofit and private sectors, and for master's programs and doctoral research programs in environmental fields. Possible career paths include environmental monitoring, consulting, education, research, and planning, as well as natural resource management, ecology restoration, remediation, water and air quality assessment, sustainability practices, and more. Undergraduates in Environmental Sciences prepare for a variety of career and graduate school opportunities that require a strong background in the natural sciences. Foundational course work in the major includes calculus, biology, chemistry, and physics. Core and elective course work is fulfilled through diverse offerings from both the College of Agricultural and Life Sciences and the College of Letters & Science.

The Environmental Sciences major can be earned in either the College of Agricultural and Life Sciences (CALS) or the College of Letters & Science (L&S) under the bachelor of science (B.S.) or bachelor of arts (B.A.) degree program. An undergraduate B.S. degree is offered through both colleges. A B.A. option is offered through L&S only. Students are encouraged to review the degree requirements for both L&S and CALS

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students majoring in Environmental Sciences must complete a minimum of 59 credits (detailed below)

### MATHEMATICS AND STATISTICS

Code	Title	Credits
Complete one of the following:		5-10

MATH 221	Calculus and Analytic Geometry I (Recommended)
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MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II
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MATH 211	Calculus
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Complete one of the following:		3-4
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STAT 240	Data Science Modeling I
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STAT 302	Accelerated Introduction to Statistical Methods
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STAT 371	Introductory Applied Statistics for the Life Sciences
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**Total Credits** 8-14

### CHEMISTRY

Code	Title	Credits
CHEM 103 & CHEM 104 or CHEM 109	General Chemistry I and General Chemistry II Advanced General Chemistry	5-9

Complete one of the following: 3

CHEM 341	Elementary Organic Chemistry
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CHEM 343	Organic Chemistry I
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**Total Credits** 8-12

### BIOLOGY

Code	Title	Credits
Complete one of the following:		10

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology
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BOTANY/ BIOLOGY 130 & ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	General Botany and Animal Biology and Animal Biology Laboratory
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BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory
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**Total Credits** 10

### PHYSICS

Code	Title	Credits
Complete one of the following:		4-5

PHYSICS 207	General Physics (recommended)
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PHYSICS 201	General Physics
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PHYSICS 103	General Physics
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**Total Credits** 4-5

### MAJOR FOUNDATION

Code	Title	Credits
Complete one of the following:		3-5

ENVIR ST/ILS 126	Principles of Environmental Science
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GEOG/ ENVIR ST 120	Introduction to the Earth System
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GEOSCI/ ENVIR ST 106	Environmental Geology
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SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
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SOIL SCI 250	Introduction to Environmental Science	
<b>Total Credits</b>		<b>3-5</b>

## MAJOR CORE

Complete at least one course and 3 credits from each of these following areas:

### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology (Recommended)	4
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2

ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
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### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4

SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
COMP SCI 220	Data Science Programming I	4
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3

C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 411	Energy Resources	3
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

### MAJOR ELECTIVES

There are two ways to complete this requirement, either by distributing 12 credits across at least three categories, or by concentrating those credits in a single category.<sup>1</sup>

### DISTRIBUTED Electives

Students choosing the Distributed Electives path must complete a total of **12 credits** of Environmental Sciences Electives from the categories below, including **at least one course** from **each** category.

#### Ecology

Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1



ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
HORT 334	Greenhouse Cultivation	2
HORT 335	Greenhouse Cultivation Lab	1
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
SOIL SCI/ PL PATH 323	Soil Biology	3
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3

BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
ENVIR ST/ CIV ENGR/ LAND ARC 556	Remote Sensing Digital Image Processing	3
GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3

GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4	F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
GEOG 378	Introduction to Geocomputing	4	F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GEOG 560	Advanced Quantitative Methods	3	HORT 334	Greenhouse Cultivation	2
GEOG 578	GIS Applications	4	HORT 335	Greenhouse Cultivation Lab	1
GEOG 579	GIS and Spatial Analysis	4	LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2	LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2	SOIL SCI/ PL PATH 323	Soil Biology	3
LAND ARC 511	Geodesign Methods and Applications	3	ZOOLOGY 304	Marine Biology	2
SOIL SCI 585	Using R for Soil and Environmental Sciences	3	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3	ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3

### FOCUSED Electives

Students choosing the Focused Electives path must complete a total of **12 credits** of Environmental Sciences Electives from **one** of the following categories.

Ecology		
Code	Title	Credits
AGRONOMY 300	Cropping Systems	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM/BOTANY/ ZOOLOGY 473	Plant-Insect Interactions	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL/AN SCI/ ZOOLOGY 520	Ornithology	3
F&W ECOL/AN SCI/ ZOOLOGY 521	Birds of Southern Wisconsin	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1

### Physical Environment

Code	Title	Credits
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	3
ATM OCN/ ENVIR ST/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ATM OCN/ GEOG 323	Science of Climate Change	3
ATM OCN/ ENVIR ST/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ATM OCN/ ENVIR ST 355	Introduction to Air Quality	3
ATM OCN/ ENVIR ST 520	Bioclimatology	3
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	3
BSE 365	Measurements and Instrumentation for Biological Systems	3
BSE/ENVIR ST 367	Renewable Energy Systems	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
CIV ENGR 424	Environmental Engineering Laboratory	2
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEOG/GEOSCI 320	Geomorphology	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3

GEOSCI 304	Geobiology	3
GEOSCI 551	Paleoceanography	3
GEOSCI/G L E 627	Hydrogeology	3-4
GEOSCI/G L E 629	Contaminant Hydrogeology	3
POP HLTH/ ENVIR ST 471	Introduction to Environmental Health	3
SOIL SCI 301	General Soil Science	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
SOIL SCI 321	Soils and Environmental Chemistry	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
SOIL SCI 430	Environmental Soil Contamination	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ AGRONOMY/ ATM OCN 532	Environmental Biophysics	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3

### Geospatial Sciences

Code	Title	Credits
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GEOG 360	Quantitative Methods in Geographical Analysis	4
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 560	Advanced Quantitative Methods	3
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 511	Geodesign Methods and Applications	3
SOIL SCI 585	Using R for Soil and Environmental Sciences	3
SOIL SCI/ENVIR ST/ LAND ARC 695	Applications of Geographic Information Systems in Natural Resources	3

### Environmental Policy & Social Perspectives

Code	Title	Credits
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
C&E SOC/CURRIC/ ENVIR ST 405	Education for Sustainable Communities	3
C&E SOC/ENVIR ST/ GEOG 434	People, Wildlife and Landscapes	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG/ ENVIR ST 537	Culture and Environment	4
GEOSCI/ ENVIR ST 411	Energy Resources	3
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
POLI SCI 510	Politics of Government Regulation	3-4
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources	3-4

1

Students may consult their environmental sciences advisor regarding alternate ways to complete the major electives requirement.

### CAPSTONE <sup>2</sup>

Code	Title	Credits
AGRONOMY 500	Senior Capstone Experience	2
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3

CIV ENGR 515	Hydroclimatology for Water Resources Management	3
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
F&W ECOL/A A E/ ENVIR ST 652	Decision Methods for Natural Resource Managers	3-4
LAND ARC 668	Restoration Ecology	3
PL PATH 315	Plant Microbiomes	4
SOIL SCI 499	Soil Management	3

**2**

Students may speak with their environmental science advisor about alternatives (e.g., courses, directed study, senior thesis) to complete the capstone. To be approved, the alternative must be taken for a minimum of 3 credits, clearly focused on environmental science, and approved by the Environmental Sciences Administrative Committee. Students must consult with their environmental sciences advisor and fill out all necessary paperwork before registering.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA and 15 credits of upper level major courses taken in residence<sup>3</sup>
- 15 credits in the major taken on the UW–Madison campus

**3**

Major courses numbered 300 through 699 are considered upper level.

## HONORS IN THE MAJOR

Honors in the Major is not available in Environmental Sciences.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of Environmental Science fundamentals in the context of biology, chemistry, mathematics, statistics, and physics.

2. Demonstrate a quantitative and qualitative understanding of the ecological relationships (material and energetic) between organisms, both as individuals and in groups, and their biotic and abiotic environment. This may include processes influencing the distribution and abundance of organisms.
3. Demonstrate a quantitative and qualitative understanding of the physical, largely abiotic, conditions (e.g. climate, water, soil, air, noise, greenspace, etc.) of the environment. The physical environment can include natural or managed settings such as urban environments.
4. Demonstrate a quantitative and qualitative understanding of geospatial processes and information as it relates to the environment including how to collect, interpret, and analyze geospatial information regarding the features of the Earth's surface. These technologies may include geographic information systems (GIS), the global positioning system (GPS), digital maps, and satellite based remote sensing.
5. Demonstrate a basic understanding of relationships that focus on the organization and implementation of laws, regulations, and other policy mechanisms concerning environmental issues and sustainability and their effect on society. This includes how human behaviors influences, and are also influenced by, the natural environment.
6. Apply skills in critical thinking, problem identification and resolution of a complex environmental issues that require interdisciplinary solutions and team-based work.
7. Articulate the role of environmental science in one or more focused areas of a specific environmental discipline (e.g. geology, soils, atmosphere, water, plants, animals).
8. Demonstrate expertise in organizing and presenting (written and oral) scientific information to both lay and professional audiences.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
CHEM 103 or 109	4	CHEM 104	5
MATH 114 or 171	5	MATH 221 or 217	5
Foreign Language	4	Environmental Sciences Foundation Course	3
Comm A	3	Foreign Language	4
<b>16</b>		<b>17</b>	

**Second Year**

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 or BOTANY 130	5	BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 (or BIOLOGY 152)	5

CHEM 341, 343, or 561	3 STAT 371	3
Social Science Course	3 Humanities/Ethnic Studies Course	4
Literature Course	3 Elective	3
INTER-LS 210	1	
	<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
PHYSICS 207, 201, or 103		5 Major Core Course	3
Major Core Course		3 Major Core Course	4
Major Core Course		3 Literature Course	3
Social Science Course		3 Elective	3
		Elective	2
	<b>14</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Environmental Sciences Major Elective Course		3 Environmental Sciences Major Elective Course	3
Environmental Sciences Major Elective Course		3 Social Science Course	3
Capstone		3 Environmental Sciences Major Elective Course	4
Elective		3 Humanities Course	3
Social Science Course		3	
	<b>15</b>		<b>13</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

Students wishing to declare the Environmental Sciences major should meet with an academic advisor. Contact information for advisors can be found here (<http://envirosoci.wisc.edu/advising/>).

CALS undergraduate students interested in pursuing the Environmental Sciences major in the College of Agricultural and Life Sciences should contact Zach Wyman, [zwyman@njbalster.wisc.edu](mailto:zwyman@njbalster.wisc.edu) ([zwyman@wisc.edu](mailto:zwyman@wisc.edu)) or 608-265-2925.

L&S undergraduate students interested in pursuing the Environmental Sciences major in the College of Letters & Science should contact the faculty advisor.

**CAREERS**

A major in Environmental Sciences serves as excellent preparation for careers of great diversity, including environmental modeling, agricultural scientist, botanist, ecologist, park ranger, agricultural technician, air and water quality manager, environmental analyst, air pollution analyst, environmental consultant, environmental educator, GIS analyst, project manager, hazardous waste manager, hydrologist, environmental lawyer, soil conservation technician, and natural resource specialist. For more info about careers, please visit our website (<http://envirosoci.wisc.edu/careers-internships/>).

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE****PROGRAM COMMITTEE**

Nick Balster, Professor, Department of Soil Science (Co-Chair)  
 Ken Ferrier, Associate Professor, Department of Geoscience  
 Zac Freedman, Assistant Professor, Department of Soil Science  
 Hazel M. Holden, Professor, Department of Biochemistry  
 Erin Silva, Associate Professor, Department of Plant Pathology  
 Daniel J. Vimont, Professor, Department of Atmospheric and Oceanic Sciences (Co-Chair)

**Staff Advisors**

Zach Wyman, Academic Advising Manager (CALs)  
 Sabrina Manero, Academic Advising Manager (L&S)

**BIOLOGY CORE CURRICULUM****DEGREES/MAJORS/CERTIFICATES**

- Biology Core Curriculum Honors, Certificate (p. 534)

## BIOLOGY CORE CURRICULUM HONORS, CERTIFICATE

Biology Core Curriculum (Biocore (<http://www.biocore.wisc.edu/>)) is an undergraduate Honors biology certificate program for students who are motivated to learn biology within a small community of students, peer mentors, and faculty instructors. The four-semester curriculum of lecture and laboratory courses provides an integrated foundation of knowledge and skills applicable to any area of bioscience.

Biocore is not a major but fulfills requirements (introductory to intermediate coursework, Honors, and Communication Part B) for a variety of biological science majors including those in the College of Agricultural and Life Sciences, College of Letters & Science, College of Engineering, and School of Pharmacy. See the Biocore website and video (<http://www.biocore.wisc.edu/about/>) to learn more.

Unique aspects of Biocore include:

- Small classes and high faculty/instructor contact
- Emphasis on research, problem solving, science reasoning, group learning, and communication
- Inclusive, collaborative community of students and faculty
- Peer mentoring, outreach, and directed study opportunities
- Biocore Honors certificate.<sup>1</sup>

1

*Biology Core Curriculum Honors certificate* is available to students within the College of Agricultural and Life Sciences, the College of Engineering, the School of Human Ecology, the College of Letters & Science, and the School of Pharmacy. Students in the School of Business, the School of Education, and the School of Nursing are welcome to benefit from enrollment in the Biocore courses, but they are ineligible to earn the certificate. Students earn Honors course credit for each Biocore course and are eligible to earn a certificate upon completion of all four lecture courses and two of three lab courses with a grade of B or higher in all BIOCORE (<http://guide.wisc.edu/courses/biocore/>) courses and a 3.33 cumulative GPA.

### HOW TO GET IN

Biocore is an application-based Honors program that starts in the fall. While any UW–Madison who is admitted to Biocore can take courses and complete the program, only students in the College of Agricultural and Life Sciences, the College of Engineering, the School of Human Ecology, the College of Letters & Science, the School of Education, the School of Pharmacy and the School of Business will be eligible to have the certificate noted on their transcript.

Application options:

Applications are available through the Biocore website (<https://biocore.wisc.edu/biocore-admissions/>) starting in mid-December. Most students apply during the spring of freshman year and begin fall of sophomore year.

- Early application deadline on first Friday of January for notification prior to beginning of spring semester

- Regular application deadline in mid-March prior to April registration
- Rolling application review after March deadline right up to the start of fall classes

### PREREQUISITES

Please inquire about course equivalents.

Code	Title	Credits
<b>Introductory Chemistry</b>		
Complete one of the following:		5
CHEM 104	General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
<b>Total Credits</b>		<b>5</b>

### REQUIREMENTS

#### REQUIREMENTS FOR THE CERTIFICATE

Code	Title	Credits
<b>Complete the following lecture courses (in sequence):</b>		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Principles of Physiology	3
BIOCORE 587	Biological Interactions	3
<b>Complete two of the following lab courses (in any order):</b>		<b>4</b>
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	
<b>Total Credits</b>		<b>16</b>

### RESIDENCE & QUALITY OF WORK

- Minimum 3.3000 University GPA
- Grade of B or better in all BIOCORE and courses used for the certificate

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate a learning mindset and intellectual curiosity for biology.
2. Demonstrate advanced level scientific reasoning and integration of biological concepts and processes – from molecules to the biosphere, across different forms of life, through space and time.
3. Generate novel scientific questions, formulate hypotheses, carry out experiments, and make logical conclusions based on evidence.

4. Demonstrate advanced scientific communication skills, oral and written, and the ability to translate their understanding to the broader community.
5. Actively engage in and practice group learning, collaboration, and teamwork.
6. Reach for and achieve high standards in the quality of learning.
7. Articulate the value of the Biocore Honors experience.

## ADVISING AND CAREERS

Some majors require students to complete the whole program, but others do not. **Check on your major requirements and with an academic advisor in your major.** Review sample 4-year schedules (<https://biocore.wisc.edu/four-year-schedules/>) for how Biocore fits into many different bioscience majors. Students who plan to study abroad during their junior year can plan to start Biocore as sophomores and complete coursework as seniors.

For general academic and advising questions in Biocore, contact: Janet Batzli, Biocore associate director, [jcbatzli@wisc.edu](mailto:jcbatzli@wisc.edu) or Diana Tapia Ramon, high impact practice facilitator [dtapia2@wisc.edu](mailto:dtapia2@wisc.edu).

For questions about the student experience see Biocore Peer Advisors (<https://biocore.wisc.edu/biocore-peer-advisors/>) and contact [uwbiocore.peeradvisors@gmail.com](mailto:uwbiocore.peeradvisors@gmail.com).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Shelby O'Connor (faculty director)

Janet Batzli (associate director, teaching faculty)

Carol Borcherding (program manager)

Anna Kowalkowski (teaching faculty)

Seth McGee (lab instructor)

Diana Tapia Ramon (high impact practice facilitator)

Biocore faculty instructors come from departments and colleges across campus (College of Letters & Science, College of Agriculture and Life Sciences, School of Medicine and Public Health, College of Engineering) and bring with them different perspectives and disciplinary expertise on a whole range of topics and scales of biological organization from molecules to ecosystems. The curriculum permits students to attain a relatively high level of sophistication with complete flexibility of choice for subsequent major specialization.

### Affiliated Faculty Instructors

Bill Bement (Integrative Biology, L&S)

Paul Bethke (Horticulture, CALS)

Erik Dent (Neuroscience, SMPH)

Irwin Goldman (Horticulture, CALS)

Anne Griep (Cell and Regenerative Biology, SMPH)

Jeff Hardin (Integrative Biology, L&S)

Laura Hernandez (Animal & Dairy Sciences, CALS)

Evelyn Howell (Landscape Architecture, L&S)

Robert Kotloski (Neurology, SMPH)

Trina McMahon (Civil and Environmental Engineering, Engr)

Shelby O'Connor (Pathology, SMPH)

Han Wang (Integrative Biology, L&S)

Biocore Steering Committee: Elaine Alarid, Janet Batzli, Paul Bethke (chair), Anne Griep, Jeff Hardin, Anna Kowalkowski, Evelyn Howell, Shelby O'Connor

## WISCONSIN EXPERIENCE

The Biocore Experience is aligned with the Wisconsin Experience, supporting students' development of knowledge, intellectual skills, and social responsibilities.

Biocore is an Honors biology program, a *community* and a *curriculum* that challenges students to discover and reach their academic potential within an inclusive and supportive biology education program. The Biocore Honors community of highly motivated students works with dedicated faculty to extend opportunities for scientific research, communication,

integrative learning, and collaboration in the context of a four-semester undergraduate biology curriculum.

#### Students say:

“Biocore has helped me **think about science in a completely different way.**”

“I have never been so challenged, nor so **excited about learning**, as during my time in Biocore.”

“Biocore taught me how to **think critically and how to question**. I learned to be part of a team and made some great friendships.”

“Taking Biocore made other **advanced courses in biology/biochemistry/genetics so much easier** because I gained such solid background knowledge.”

“Biocore has been my most valuable academic experience yet. It has helped me develop my **scientific writing skills, ability to problem solve as a member of a team, and to think like a scientist.**”

“The **great staff and teaching teams** are excellent -- they **really care** and invest a huge amount of time to benefit our learning.”

See Biocore Experience video (<https://youtu.be/YavNVg7eXaA/>), recent Biocore Honors graduate profiles (<https://biocore.wisc.edu/biocore-graduates/>), and alumni profiles (<http://www.biocore.wisc.edu/alumni/>).

In addition to courses, Biocore offers co-curricular and leadership opportunities. Students are also able to engage in Biocore peer advising (<https://biocore.wisc.edu/biocore-peer-advisors/>), Biocore peer mentoring (<https://biocore.wisc.edu/biocore-peer-mentors/>), undergraduate TAs, as well as engage in directed study and research opportunities in the Biocore Prairie (<https://biocore.wisc.edu/biocore-prairie/>), go outside the classroom with Biocore Adventure Club, and in K-12 outreach through the Biocore Outreach Ambassadors (<https://biocore.wisc.edu/biocore-outreach-ambassadors/>).

## BOTANY

The Department of Botany provides an introduction to the living world: the diversity of its organisms; its historical origins through evolution; its principles of structure, function, and ecology; and its interactions, relationships, and effects on the nonliving world. Botany is the science of plants, algae, fungi, and bacteria—all living organisms except animals. Green plants and algae provide the photosynthetic energy for fueling all other life on earth and drive global water and carbon cycles. Fungi and bacteria are the fundamental recyclers of the earth.

The study of botany provides a broad background in the principles of modern biology and gives a solid foundation for careers in environmental studies, conservation biology, ecology, systematics, evolution, genetics, physiology, biotechnology, agriculture, and horticulture. Jobs requiring such preparation include teaching in secondary schools and colleges, research and development in industry and medicine, stewardship of our natural world through private and governmental programs, and research and teaching in academia.

Undergraduates interested in majoring in botany should take an introductory course or course sequence in their freshmen or sophomore years:

Code	Title	Credits
<b>Option A (strongly recommended)</b>		
BOTANY/ BIOLOGY 130	General Botany	5
With or without the following:		
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	5
<b>Option B (also appropriate)</b>		
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5
<b>Option C (also appropriate)</b>		
Biology Core Curriculum		

The general undergraduate botany advisor will help guide students to a botany faculty member in their field of interest, who should be chosen as soon as possible—no later than the junior year. All botany faculty members serve as advisors for their special fields.

The department encourages undergraduates to participate in its activities. Volunteers are welcome in the herbarium and greenhouses. There are a few paid positions there and in many of the research laboratories as well.

## DEGREES/MAJORS/CERTIFICATES

- Botany, B.A. (p. 536)
- Botany, B.S. (p. 541)
- Conservation Biology, B.A. (p. 545)
- Conservation Biology, B.S. (p. 552)

## PEOPLE

Professors Ane, Baum, Cameron, Emshwiller, Gilroy, Givnish, Hotchkiss, Maeda, Otegui, Spalding, Sytsma (chair)

Associate Professor McCulloh

Assistant Professors Keefover-Ring

## BOTANY, B.A.

The Department of Botany provides an introduction to the living world: the diversity of its organisms; its historical origins through evolution; its principles of structure, function, and ecology; and its interactions, relationships, and effects on the nonliving world. Botany is the science of plants, algae, fungi, and bacteria—all living organisms except animals. Green plants and algae provide the photosynthetic energy for fueling all other life on earth and drive global water and carbon cycles. Fungi and bacteria are the fundamental recyclers of the earth.

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research and development in industry and medicine, stewardship of our natural world through private and governmental programs, and research and teaching in academia.

## HOW TO GET IN

Prospective Botany majors should consult with the general undergraduate botany advisor by the beginning of the junior year to outline a course of study appropriate to the student's needs. Major Declaration may occur by meeting with the undergraduate advisor in the major.

To be accepted as a major in Botany, a student must have a grade point average of 2.500 for all science courses taken prior to declaration.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY, AND PHYSICS

Code	Title	Credits
<b>Statistics/Mathematics (One course from the following):<sup>1</sup></b>		<b>3</b>
STAT 301	Introduction to Statistical Methods	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry (One of the following):<sup>2</sup></b>		<b>5-9</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	

CHEM 109	Advanced General Chemistry	
<b>Organic Chemistry<sup>3</sup></b>		<b>3</b>
CHEM 341	Elementary Organic Chemistry	
or CHEM 343	Organic Chemistry I	
<b>Physics (One course from the following):<sup>4</sup></b>		<b>3-5</b>
PHYSICS 115	Energy and Climate (preferred)	
PHYSICS 103	General Physics	
PHYSICS 104	General Physics	
PHYSICS 201	General Physics	
PHYSICS 202	General Physics	
PHYSICS 207	General Physics	
PHYSICS 208	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
PHYSICS 249	A Modern Introduction to Physics	
<b>Total Credits</b>		<b>14-20</b>

**1**

STAT 371, MATH 211 or MATH 221 are strongly recommended for students preparing for graduate school, as these usually are required for entry into post-undergraduate programs.

**2**

CHEM 109 is the best option for chemistry if only one course is to be taken. However, for students who are preparing for graduate school, and depending on their post graduate goals (CHEM 103-CHEM 104 OR CHEM 115-CHEM 116) is strongly recommended as some graduate programs may require a sequence of organic chemistry courses.

**3**

CHEM 341 is the best option for organic chemistry if only one course is to be taken. However, for students who are preparing for graduate school, the three-course organic chemistry sequence (CHEM 343-CHEM 344-CHEM 345) is strongly recommended instead of CHEM 341, as some graduate programs may require a sequence of organic chemistry courses.

**4**

PHYSICS 115 is the best choice if one course is to be taken. It is recommended that two semesters of PHYSICS be taken (PHYSICS 103-PHYSICS 104 or PHYSICS 201-PHYSICS 202 or PHYSICS 207-PHYSICS 208).

## BIOLOGY AND BOTANY REQUIREMENTS

30 credits from:

Code	Title	Credits
<b>Introductory Biology (Complete one option):</b>		<b>5-10</b>
<i>Option A, Recommended</i>		
BOTANY/ BIOLOGY 130	General Botany <sup>1</sup>	
<i>Option B: Introductory Biology</i>		
BOTANY/ BIOLOGY/ ZOOLOGY 151	Introductory Biology	
BOTANY/ BIOLOGY/ ZOOLOGY 152	Introductory Biology	
<i>Option C: BIOCORE</i>		

BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	

Code	Title	Credits
<b>Botany Distribution - Five courses, to include at least one course in these areas:</b>		<b>15</b>

*Cell, Molecular, Physiology (1 course required):*

BOTANY 300 Plant Anatomy  
or BOTANY 500 Plant Physiology

*Ecology (1 course required):*

BOTANY/  
F&W ECOL 455 The Vegetation of Wisconsin  
or BOTANY/  
F&W ECOL/  
ZOOLOGY 460 General Ecology

*Genetics, Evolution (1 course required):<sup>2</sup>*

BOTANY/  
ANTHRO/  
ZOOLOGY 410 Evolutionary Biology

AGRONOMY/  
HORT 338 Plant Breeding and Biotechnology

GENETICS 466 Principles of Genetics<sup>2</sup>

GENETICS 467 General Genetics 1

GENETICS 468 General Genetics 2

*Diversity*

BOTANY 305 Plant Morphology and Evolution

BOTANY 330 Algae

BOTANY/  
PL PATH 332 Fungi

BOTANY 400 Plant Systematics

BOTANY 401 Vascular Flora of Wisconsin

*Optionally, 1 of the 5 required courses may come from this list, or students may take a second course from any area listed above:*

BOTANY/  
GEOG 338 Environmental Biogeography

BOTANY/  
AGRONOMY/  
HORT 339 Plant Biotechnology: Principles and Techniques I

BOTANY/  
AGRONOMY/  
SOIL SCI 370 Grassland Ecology

BOTANY/  
F&W ECOL 402 Dendrology

BOTANY 403 Field Collections and Identification

BOTANY 422 Plant Geography

BOTANY/  
ZOOLOGY 450 Midwestern Ecological Issues: A Case Study Approach

BOTANY/  
ENTOM/  
ZOOLOGY 473 Plant-Insect Interactions

BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
BOTANY/ ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data
BOTANY/ BIOCHEM 621	Plant Biochemistry
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
BIOCHEM 501	Introduction to Biochemistry
BIOCORE 486	Principles of Physiology Laboratory
BIOCORE 587	Biological Interactions
F&W ECOL 415	Tree Physiology
MICROBIO 303	Biology of Microorganisms
ZOOLOGY 570	Cell Biology

Code	Title	Credits
<b>Independent Research Experience—choose one:<sup>3</sup></b>		<b>3-6</b>
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	4
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	6
BOTANY 699	Directed Study	3-4

1

In addition to BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY 101 and/or ZOOLOGY/BIOLOGY 102 will count towards 30 credits of Botany major.

2

Completion of the BIOCORE sequence also satisfies the Genetics, Evolution area (BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485).

3

Students nearing completion of the major should seek out research opportunities with their advisor or faculty supervisor, and register for their project at the end of the junior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all BOTANY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>

15 credits in BOTANY, taken on the UW–Madison campus

1

BOTANY 300–699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Botany Major in consultation with the Botany undergraduate advisor.

## HONORS IN THE MAJOR IN BOTANY: REQUIREMENTS

To earn Honors in the Major in Botany, students must satisfy the requirements for the major (above) and the following additional requirements:

3.300 University GPA

3.400 GPA in all BOTANY and major courses

Complete a Senior Honors Thesis in BOTANY 681 & BOTANY 682, for a total of 6 credits

12 additional credits in Intermediate/Advanced level BOTANY, taken for Honors<sup>1</sup>

1

Excluding BOTANY 681 and BOTANY 682.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire and demonstrate foundational understanding of the basic properties of plant life from the subcellular to the ecosystem level of organization.
2. Acquire and demonstrate basic understanding in chemistry, physics, and mathematics to interpret biological phenomena.
3. Acquire and demonstrate detailed knowledge in at least five of these core areas of plant biology: Genetics, Physiology, Structural biology, Ecology, Systematics, Evolution, Cryptogamic biology.
4. Explore these core areas in the context of the laboratory and/or the field.
5. Engage in plant biology research (to include algae, photosynthetic bacteria, and fungi): develop hypotheses, acquire scientific information, and interpret results in the context of the historical scientific literature in one or more specialized botanical subdisciplines.
6. Develop an appreciation of communicating scientific information, especially in written form.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109 <sup>1</sup>	4-5	CHEM 104	5
MATH 221 or 211		5 STAT 301 or 371	3
Foreign Language	3-4	Communications B or L&S Breadth	3
Communications A (complete during your first year)		3 Elective or L&S Breadth	3
		<b>15</b>	<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
CHEM 343 <sup>2</sup>		3 CHEM 344	2
Introductory Biology (select one of the following options):		5 CHEM 345 <sup>2</sup>	3
BOTANY/BIOLOGY 130		Ethnic Studies	3
BIOLOGY/BOTANY/ZOOLOGY 151		Introductory Biology	5
BIOCORE 381 & BIOCORE 382		BIOLOGY/BOTANY/ZOOLOGY 152	
L&S Breadth	3-5	BIOCORE 383 & BIOCORE 384	
Elective	3	BIOLOGY/ZOOLOGY 101 & BIOLOGY/ZOOLOGY 102	
		Elective	3
		<b>14</b>	<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
PHYSICS 115, 103, 201, or 207		5 PHYSICS 104, 202, or 208 <sup>2</sup>	4
BIOCORE 485 & BIOCORE 486		5 Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	12
Botany Breadth course (I/A)	3-6		

Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	3	
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17

16

#### Fourth Year

Fall	Credits	Spring	Credits
BOTANY 691, 681, or 699 (Botany Major Capstone)		2-3 BOTANY 692 or 682 (Botany Capstone)	3
Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)		11 Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	11

14

14

#### Total Credits 120

1

Chemistry sequence 103-104 recommended

2

Organic Chemistry full sequence 343-344-345 recommended

## ADVISING AND CAREERS

### ADVISING

Students can find information about declaring the major at declaration and advising (<https://botany.wisc.edu/undergraduate-study/declaration-and-advising/>).

The Department of Botany encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks in the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## PEOPLE

Professors Ane, Baum, Cameron, Emshwiller, Gilroy, Givnish, Hotchkiss, Maeda, Otegui, Spalding, Sytsma (chair)

Associate Professor McCulloh

Assistant Professors Keefover-Ring

## BOTANY, B.S.

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Prospective Botany majors should consult with the general undergraduate botany advisor by the beginning of the junior year to outline a course of study appropriate to the student's needs. Major Declaration may occur by meeting with the undergraduate advisor in the major.

To be accepted as a major in Botany, a student must have a grade point average of 2.500 for all science courses taken prior to declaration.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:
 

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced level.** Complete at least 60 credits at the Intermediate or Advanced level.

**Advanced Coursework**

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:
 

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

Quality of Work • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY, AND PHYSICS

Code	Title	Credits
<b>Statistics/Mathematics (One course from the following):<sup>1</sup></b>		<b>3</b>
STAT 301	Introduction to Statistical Methods	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry (One of the following):<sup>2</sup></b>		<b>5-9</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
CHEM 109	Advanced General Chemistry	
<b>Organic Chemistry<sup>3</sup></b>		<b>3</b>
CHEM 341 or CHEM 343	Elementary Organic Chemistry or Organic Chemistry I	
<b>Physics (One course from the following):<sup>4</sup></b>		<b>3-5</b>
PHYSICS 115	Energy and Climate (preferred)	
PHYSICS 103	General Physics	
PHYSICS 104	General Physics	
PHYSICS 201	General Physics	
PHYSICS 202	General Physics	
PHYSICS 207	General Physics	
PHYSICS 208	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
PHYSICS 248	A Modern Introduction to Physics	
PHYSICS 249	A Modern Introduction to Physics	
<b>Total Credits</b>		<b>14-20</b>

<sup>1</sup> STAT 371, MATH 211 or MATH 221 are strongly recommended for students preparing for graduate school, as these usually are required for entry into post-undergraduate programs.

<sup>2</sup> CHEM 109 is the best option for chemistry if only one course is to be taken. However, for students who are preparing for graduate school, and depending on their post graduate goals (CHEM 103-CHEM 104 OR CHEM 115-CHEM 116) is strongly recommended as some graduate programs may require a sequence of organic chemistry courses.

<sup>3</sup> CHEM 341 is the best option for organic chemistry if only one course is to be taken. However, for students who are preparing for graduate school, the three-course organic chemistry sequence (CHEM 343-CHEM 344-CHEM 345) is strongly recommended instead of CHEM 341, as some graduate programs may require a sequence of organic chemistry courses.

<sup>4</sup> PHYSICS 115 is the best choice if one course is to be taken. It is recommended that two semesters of PHYSICS be taken (PHYSICS 103-PHYSICS 104 or PHYSICS 201-PHYSICS 202 or PHYSICS 207-PHYSICS 208).

## BIOLOGY AND BOTANY REQUIREMENTS

30 credits from:

Code	Title	Credits
<b>Introductory Biology (Complete one option):</b>		<b>5-10</b>
<i>Option A, Recommended</i>		
BOTANY/ BIOLOGY 130	General Botany <sup>1</sup>	
<i>Option B: Introductory Biology</i>		
BOTANY/ BIOLOGY/ ZOOLOGY 151	Introductory Biology	
BOTANY/ BIOLOGY/ ZOOLOGY 152	Introductory Biology	
<i>Option C: BIOCORE</i>		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	

Code	Title	Credits
<b>Botany Distribution - Five courses, to include at least one course in these areas:</b>		<b>15</b>
<i>Cell, Molecular, Physiology (1 course required):</i>		
BOTANY 300	Plant Anatomy	
	or BOTANY 500 Plant Physiology	
<i>Ecology (1 course required):</i>		
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
	or BOTANY/ F&W ECOL/ ZOOLOGY 460	
<i>Genetics, Evolution (1 course required):<sup>2</sup></i>		
BOTANY/ ANTHRO/ ZOOLOGY 410	Evolutionary Biology	
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	
GENETICS 466	Principles of Genetics <sup>2</sup>	
GENETICS 467	General Genetics 1	

GENETICS 468	General Genetics 2
<i>Diversity</i>	
BOTANY 305	Plant Morphology and Evolution
BOTANY 330	Algae
BOTANY/ PL PATH 332	Fungi
BOTANY 400	Plant Systematics
BOTANY 401	Vascular Flora of Wisconsin
<i>Optionally, 1 of the 5 required courses may come from this list, or students may take a second course from any area listed above:</i>	
BOTANY/ GEOG 338	Environmental Biogeography
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I
BOTANY/ AGRONOMY/ SOIL SCI 370	Grassland Ecology
BOTANY/ F&W ECOL 402	Dendrology
BOTANY 403	Field Collections and Identification
BOTANY 422	Plant Geography
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach
BOTANY/ ENTOM/ ZOOLOGY 473	Plant-Insect Interactions
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
BOTANY/ ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data
BOTANY/ BIOCHEM 621	Plant Biochemistry
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
BIOCHEM 501	Introduction to Biochemistry
BIOCORE 486	Principles of Physiology Laboratory
BIOCORE 587	Biological Interactions
F&W ECOL 415	Tree Physiology
MICROBIO 303	Biology of Microorganisms
ZOOLOGY 570	Cell Biology

Code	Title	Credits
<b>Independent Research Experience—choose one:</b> <sup>3</sup>		
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	4

BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	6
BOTANY 699	Directed Study	3-4

1

In addition to BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY 101 and/or ZOOLOGY/BIOLOGY 102 will count towards 30 credits of Botany major.

2

Completion of the BIOCORE sequence also satisfies the Genetics, Evolution area (BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485).

3

Students nearing completion of the major should seek out research opportunities with their advisor or faculty supervisor, and register for their project at the end of the junior year.

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all BOTANY and major courses

2.000 GPA on 15 upper-level major credits, taken in residence <sup>1</sup>

15 credits in BOTANY, taken on the UW–Madison campus

1

BOTANY 300–699 are considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Botany Major in consultation with the Botany undergraduate advisor.

## HONORS IN THE MAJOR IN BOTANY: REQUIREMENTS

To earn Honors in the Major in Botany, students must satisfy the requirements for the major (above) and the following additional requirements:

3.300 University GPA

3.400 GPA in all BOTANY and major courses

Complete a Senior Honors Thesis in BOTANY 681 & BOTANY 682, for a total of 6 credits

12 additional credits in Intermediate/Advanced level BOTANY, taken for Honors <sup>1</sup>

1

Excluding BOTANY 681 and BOTANY 682.

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire and demonstrate foundational understanding of the basic properties of plant life from the subcellular to the ecosystem level of organization.
2. Acquire and demonstrate basic understanding in chemistry, physics, and mathematics to interpret biological phenomena.
3. Acquire and demonstrate detailed knowledge in at least five of these core areas of plant biology: Genetics, Physiology, Structural biology, Ecology, Systematics, Evolution, Cryptogamic biology.
4. Explore these core areas in the context of the laboratory and/or the field.
5. Engage in plant biology research (to include algae, photosynthetic bacteria, and fungi): develop hypotheses, acquire scientific information, and interpret results in the context of the historical scientific literature in one or more specialized botanical subdisciplines.
6. Develop an appreciation of communicating scientific information, especially in written form.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 103 or 109 <sup>1</sup>	4-5	CHEM 104	5
MATH 221 or 211	5	STAT 301 or 371	3
Foreign Language	3-4	Communications B or L&S Breadth	3
Communications A (complete during your first year)	3	Elective or L&S Breadth	3
	<b>15</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
CHEM 343 <sup>2</sup>	3	CHEM 344	2
Introductory Biology (select one of the following options):	5	CHEM 345 <sup>2</sup>	3
BOTANY/BIOLOGY 130		Ethnic Studies	3
BIOLOGY/BOTANY/ZOOLOGY 151		Introductory Biology	5
BIOCORE 381 & BIOCORE 382		BIOLOGY/BOTANY/ZOOLOGY 152	
L&S Breadth	3-5	BIOCORE 383 & BIOCORE 384	
Elective	3	BIOLOGY/ZOOLOGY 101 & BIOLOGY/ZOOLOGY 102	
		Elective	3
	<b>14</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
PHYSICS 115, 103, 201, or 207	5	PHYSICS 104, 202, or 208 <sup>2</sup>	4
BIOCORE 485 & BIOCORE 486	5	Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	12
Botany Breadth course (I/A)	3-6		
Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	3		
	<b>17</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
BOTANY 691, 681, or 699 (Botany Major Capstone)	2-3	BOTANY 692 or 682 (Botany Capstone)	3
Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	11	Botany Breadth (I/A) Course(s) or L&S Breadth Course(s) or Elective(s)	11
	<b>14</b>		<b>14</b>

#### Total Credits 120

- 1 Chemistry sequence 103-104 recommended
- 2 Organic Chemistry full sequence 343-344-345 recommended



## ADVISING AND CAREERS

### ADVISING

Students can find information about declaring the major at declaration and advising (<https://botany.wisc.edu/undergraduate-study/declaration-and-advising/>).

The Department of Botany encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks in the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Ane, Baum, Cameron, Emshwiller, Gilroy, Givnish, Hotchkiss, Maeda, Otegui, Spalding, Sytsma (chair)

Associate Professor McCulloh

Assistant Professors Keefover-Ring

## CONSERVATION BIOLOGY, B.A.

Conservation Biology is a science-based major designed to provide students broad training in biological, ecological, and related disciplines most relevant to conservation. The program emphasizes basic knowledge of natural history, whole organism biology, ecological interactions, and field biology. The major is characterized by flexibility with a broad range of opportunities allowing students to tailor the program to their interests. This major appeals to independent students capable of assembling a curriculum that takes maximum advantage of both strong background, diversity, and specialization, as well as the breadth available through an L&S major. The program has a unique appeal to students passionate about conservation biology, from the social scientist to the theoretical ecologist, and empowers students to act as informed citizens of the natural world.

Aldo Leopold, former UW professor considered the father of wildlife management, and Norman Fassett, former UW professor of Botany, first initiated this major in the 1940s to prepare individuals for careers as game wardens, ranger naturalists, and museum workers. These opportunities continue and have expanded to include work in environmental education; forest, game and park management; endangered species research and recovery efforts; work with private conservation organizations and government agencies; and many more. The major is recommended for those seeking a liberal education in the intrinsic values of natural resources and those preparing for graduate study in the rapidly developing field of conservation biology.

### INTERNSHIP/FIELD EXPERIENCE

Students in the conservation biology major are encouraged to take field courses when possible (including suitable study abroad programs) and to gain additional experience via summer jobs and paid or unpaid internships. Students who wish to obtain academic credit for such an experience should arrange **in advance** to take a Directed Study (e.g., BOTANY 699 Directed Study or ZOOLOGY 699 Directed Studies in Zoology course) as elective work in the major during or immediately after their internship.

A maximum of 10 credits of directed study (698, 699), senior honors thesis (681, 682), senior thesis (691,692), or internships (F&W ECOL 399 Coordinative Internship/Cooperative Education, ZOOLOGY 677 Internship in Ecology) will count toward the major.

### HOW TO GET IN

To declare the conservation biology major, students must make an appointment (<https://conservationbiology.ls.wisc.edu/requirements/#how-to-declare>) with the program's Academic Advising Manager.

If students are not currently in the College of Letters & Science (L&S), they must transfer into L&S before declaring. Students are welcome to meet with the Academic Advising Manager to discuss the major before transferring.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Conservation biology majors must take at least **50 credits** in the major. When selecting courses to meet major requirements, students are encouraged to meet with their Academic Advising Manager to discuss courses that align with their areas of academic interest.

#### INTRODUCTORY COURSES

Code	Title	Credits
<b>Introductory Biology</b>		<b>10</b>
Complete one of the following options:		
<i>Option 1:</i>		
BIOLOGY/ ZOOLOGY 101	Animal Biology	
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory	
BIOLOGY/ BOTANY 130	General Botany	
<i>Option 2:</i>		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
<i>Option 3:</i>		
Complete at least 10 credits from the following:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
BIOCORE 486	Principles of Physiology Laboratory	

**Chemistry 4-5**

Complete one of the following:

CHEM 103	General Chemistry I
CHEM 108	Chemistry in Our World
CHEM 109	Advanced General Chemistry (for those who might take more chemistry)

**Physical Environment 3-5**

Complete one of the following:

ATM OCN/ GEOSCI 105	Survey of Oceanography
ENVIR ST/ GEOSCI 106	Environmental Geology
ENVIR ST/ GEOG 120	Introduction to the Earth System
ENVIR ST/ GEOG 127	Physical Systems of the Environment
GEOSCI 100	Introductory Geology: How the Earth Works

**Ecology and Evolution 6-7**

Complete two of the following, each from a different category (students are encouraged to take courses in all three areas):

*Ecology:*

BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
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*Evolution:*

GEOSCI 110	Evolution and Extinction
or ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology

*Extinction:*

ENVIR ST/F&W ECOL/ZOOLOGY 360	Extinction of Species
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**Statistics 3**

Complete one of the following:

STAT 240	Data Science Modeling I
STAT 301	Introduction to Statistical Methods
STAT 371	Introductory Applied Statistics for the Life Sciences

**SPECIES & FIELD BIOLOGY****Code Title Credits**

Complete 12 credits from:

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
ENTOM/ ZOOLOGY 371	Medical Entomology
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology

AN SCI/ F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin
ANTHRO 391	Bones for the Archaeologist
ANTHRO 420	Introduction to Primatological Research
ANTHRO 458	Primate Behavioral Ecology
ANTHRO 668	Primate Conservation
BOTANY 330	Algae
BOTANY/ PL PATH 332	Fungi
BOTANY 400	Plant Systematics
BOTANY 401	Vascular Flora of Wisconsin
BOTANY/ F&W ECOL 402	Dendrology
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ ENTOM/ ZOOLOGY 473	Plant-Insect Interactions
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 331	Taxonomy of Mature Insects
ENTOM 432	Taxonomy and Bionomics of Immature Insects
ENTOM 468	Studies in Field Entomology
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources
ENVIR ST 375	Field Ecology Workshop
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 401	Physiological Animal Ecology
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
F&W ECOL 655	Animal Population Dynamics
GEOSCI/ ZOOLOGY 541	Paleobiology
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology
LAND ARC/ ENVIR ST 361	Wetlands Ecology
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
PSYCH 449	Animal Behavior <sup>1</sup>
or ZOOLOGY 42	Behavioral Ecology

PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
ZOOLOGY 304	Marine Biology
ZOOLOGY/ ENVIR ST 315	Limnology–Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology–Conservation of Aquatic Resources
ZOOLOGY 430	Comparative Anatomy of Vertebrates

## ELECTIVES

Code	Title	Credits
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### Social Science Electives

Complete at least one 3 credit course from Social Science elective list:

A A E 215	Introduction to Agricultural and Applied Economics
A A E/ ENVIR ST 244	The Environment and the Global Economy
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
ECON 101	Principles of Microeconomics
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ENVIR ST/ GEOG 139	Global Environmental Issues
ENVIR ST/ AMER IND 306	Indigenous Peoples and the Environment
ENVIR ST/ GEOG 339	Environmental Conservation
ENVIR ST/ PHILOS 441	Environmental Ethics
ENVIR ST/GEOG/ HISTORY 460	American Environmental History
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape
GEOG 344	Changing Landscapes of the American West
GEOG 359	Australia: Environment and Society
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience

### Electives to attain 50 credits in the major

AGRONOMY/ HORT 376	Tropical Horticultural Systems
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ANTHRO 405	Introduction to Museum Studies in Anthropology
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
BOTANY/ PL PATH 123	Plants, Parasites, and People
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology
BOTANY 300	Plant Anatomy
BOTANY 305	Plant Morphology and Evolution
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach
BOTANY/ ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
ENTOM/ ENVIR ST 201	Insects and Human Culture—a Survey Course in Entomology
ENTOM/ ZOOLOGY 540	Theoretical Ecology
ENTOM 699	Special Problems
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ GEOG 537	Culture and Environment
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues
F&W ECOL 375	Special Topics (Freshwater Conservation)
F&W ECOL 410	Principles of Silviculture
F&W ECOL 561	Wildlife Management Techniques

F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL 699	Special Problems
GENETICS 466	Principles of Genetics
GENETICS 467	General Genetics 1
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOSCI/ G L E 627	Hydrogeology
LAND ARC 211	Shaping the Built Environment
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
PL PATH 300	Introduction to Plant Pathology
PL PATH 315	Plant Microbiomes
SOIL SCI 301	General Soil Science
ZOOLOGY 405	Introduction to Museum Studies in the Natural Sciences

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>
- 15 credits in the major, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Conservation Biology Major in consultation with the Conservation Biology undergraduate advisor.

### HONORS IN THE CONSERVATION BIOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Conservation Biology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete at least 16 credits, taken for Honors, with a grade of B or better, in the conservation biology major, to include a two-semester Senior Honors Thesis in an appropriate department <sup>3</sup>

## FOOTNOTES

1

Students may NOT apply both ZOOLOGY 425 Behavioral Ecology and PSYCH 449 Animal Behavior in the conservation biology program.

2

Courses in the major numbered 300 through 699 are considered upper level.

3

Examples include Botany, Zoology, Environmental Studies; see the Conservation Biology advisor to verify that your thesis department will be acceptable.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Explain the basic concepts of ecology and evolution and how they underpin and apply to the science of conservation biology.
2. Understand and explain the scientific process as related to conservation biology, including the relevance of theories and how hypotheses are tested.
3. Recognize species within some particular group of organisms and explain key aspects of their ecology, phylogeny, and conservation needs.
4. Apply general ecological principles to assess and address conservation threats to particular species, communities, and ecosystems.
5. Investigate and communicate the connections between the biological and social sciences and humanities as they affect conservation programs and activities.
6. Identify, interpret, and communicate conservation ideas, needs and programs to others.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

The Conservation Biology road map is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and the Course Guide/Schedule of Classes. Your specific program of study could, and probably will, look different. You should customize the road map

to fit your unique path at UW–Madison. Consult with your advisor about the best path for you.

### Freshman

Fall	Credits	Spring	Credits
Communication A <sup>1</sup>		3 I/A COMP SCI or MATH (if required for the BS)	3-5
Quantitative Reasoning A	3-5	Ethnic Studies <sup>2</sup>	3
Foreign Language (if needed)		3-4 Social Science Breadth	3
CHEM 103		4 Elective	3
	<b>16</b>		<b>14</b>

### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 <sup>3</sup>		5 BOTANY/BIOLOGY 130	5
INTER-LS 210 <sup>4</sup>		1 Communication B	3
STAT 301, 371, or 240		3-4 Physical Environment	3-5
Humanities Breadth		3 Social Science Elective in the Major	3-4
Elective		3	
	<b>15</b>		<b>15</b>

### Junior

Fall	Credits	Spring	Credits
Ecology and Evolution		3-4 Species & Field Biology	3
Species & Field Biology		3 Humanities Breadth	3-4
Humanities Breadth		3-4 Social Science Breadth	3-4
Elective		3-4 Elective	3-4
	<b>15</b>		<b>15</b>

### Senior

Fall	Credits	Spring	Credits
Ecology and Evolution		3-4 Species & Field Biology	3
Species & Field Biology		3 Elective credit in the major (if needed for 50 credits)	3-4
Humanities Breadth		3-4 Social Science Breadth	3-4
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651 <sup>5</sup>		3 Elective	4-5
	<b>14</b>		<b>16</b>

### Total Credits 120

#### 1

While most incoming freshman are required to complete coursework to fulfill the Communication A requirement, students may be exempted by approved college coursework while in high school, AP test scores, or placement testing. Students are expected to satisfy this requirement by the end of their first year of undergraduate study.

#### 2

Students are expected to complete the Ethnic Studies requirement within the first 60 credits of undergraduate study.

#### 3

There are three options for Introductory Biology -- please consult the Requirements page of this Guide for more information. The Communication B requirement can be fulfilled by completion of ZOOLOGY/BIOLOGY/BOTANY 152 or BIOCORE 381, BIOCORE 382, or BIOCORE 384 if you choose to take those courses for Introductory Biology.

#### 4

INTER-LS 210 L&S Career Development: Taking Initiative is recommended, but not required for students pursuing the Conservation Biology major.

#### 5

Suggested elective class if needed for 50 credits in the major

## ADVISING AND CAREERS

### ADVISING

Students in the conservation biology major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<https://conservationbiology.ls.wisc.edu/advising/>) for a list of advisors and for the student services coordinator information.

The faculty advisor provides guidance specific to the discipline through discussions about undergraduate experiences (e.g., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline but helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward graduation, as well as connecting students with important resources on campus. **Because the major is so broad and involves so much choice, it is important for students to meet early and regularly with their student services coordinator and faculty advisor.**

Students contemplating graduate work in a biological discipline are advised to take the following:

Code	Title	Credits
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	

Although not required for the major, such students are also encouraged to take the following:

Code	Title	Credits
CHEM 104	General Chemistry II	
GENETICS 466	Principles of Genetics	

PHYSICS 103	General Physics
PHYSICS 104	General Physics
MATH 221	Calculus and Analytic Geometry I

## PERSONAL STATEMENT

The Personal Statement Requirement (<https://conservationbiology.ls.wisc.edu/requirements/>), completed during your final year, gives you an opportunity to work with your faculty advisor on this writing requirement that connects your UW–Madison experiences to your future. Through your writing and conversations, you will be evaluated on one of the major's learning goals.

### HOW DOES IT WORK?

1. Set up an appointment with your faculty advisor in your final year and indicate the meeting is regarding the personal statement requirement.
2. Send to your faculty advisor, in advance of the meeting, your choice of a cover letter for a position of interest, a personal plan for graduate school, or your own two-page personal statement related to the stated learning goal.
3. Bring along a hard copy of the evaluation form to be completed and signed by your faculty advisor and then submit evaluation to the Conservation Biology Student Services Coordinator, 141 Birge Hall.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW–Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Committee of Advisors: Cameron (Botany, chair of major), Givnish (Botany), Hotchkiss (Botany/Environmental Studies), Ives (Zoology), Pigeon (Forest & Wildlife Ecology), Schoville (Entomology), Strier (Anthropology), Vander Zanden, Waller (Botany), Zuckerberg (Forest and Wildlife Ecology)

## RESOURCES AND SCHOLARSHIPS

### ROLAND H. & MAUDE M. BECKER SCHOLARSHIP

Established by Barbara B. Glass in 1988 in memory of her parents, the Roland & Maude Becker Scholarship (<https://conservationbiology.ls.wisc.edu/scholarships/>) provides financial assistance to students with a major in conservation biology. The scholarship is a one-time award to help support a conservation experience related to the major. A conservation experience may include an undergraduate research experience, internship experience, study abroad program, etc. Awards will be in the amount of \$500 and up to two awards will be awarded per academic year.

### SUCCESSWORKS SUMMER INTERNSHIP SCHOLARSHIP

This scholarship (<https://careers.ls.wisc.edu/ls-finding-an-internship-money-for-your-internship/>) provides amounts ranging from \$2,000 to \$5,000 each to help students take advantage of and enable them to participate in a first time internship opportunity that is unpaid or provides a limited stipend.

### HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP

The Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 97–100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

### HOLSTROM ENVIRONMENTAL RESEARCH FELLOWSHIP

The Holstrom Environmental Research Fellowship (<https://awards.advising.wisc.edu/all-scholarships/holstrom-environmental-research-fellowship/>) supports undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least a junior standing at time of application. Apply spring semester to fund work on the project during the summer or following academic year.

### UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity, achievement, research, service-learning and community-based research from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences. This past year

nearly 700 students presented, displayed or performed their work for members of the university, the surrounding community, family and friends.

## WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working toward solving a challenge identified along with local or global community partners. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## CONSERVATION BIOLOGY, B.S.

Conservation Biology is a science-based major designed to provide students broad training in biological, ecological, and related disciplines most relevant to conservation. The program emphasizes basic knowledge of natural history, whole organism biology, ecological interactions, and field biology. The major is characterized by flexibility with a broad range of opportunities allowing students to tailor the program to their interests. This major appeals to independent students capable of assembling a curriculum that takes maximum advantage of both strong background, diversity, and specialization, as well as the breadth available through an L&S major. The program has a unique appeal to students passionate about conservation biology, from the social scientist to the theoretical ecologist, and empowers students to act as informed citizens of the natural world.

Aldo Leopold, former UW professor considered the father of wildlife management, and Norman Fassett, former UW professor of Botany, first initiated this major in the 1940s to prepare individuals for careers as game wardens, ranger naturalists, and museum workers. These opportunities continue and have expanded to include work in environmental education; forest, game and park management; endangered species research and recovery efforts; work with private conservation organizations and government agencies; and many more. The major is recommended for those seeking a liberal education in the intrinsic values of natural resources and those preparing for graduate study in the rapidly developing field of conservation biology.

## INTERNSHIP/FIELD EXPERIENCE

Students in the conservation biology major are encouraged to take field courses when possible (including suitable study abroad programs) and to gain additional experience via summer jobs and paid or unpaid internships. Students who wish to obtain academic credit for such an experience should arrange **in advance** to take a Directed Study (e.g., BOTANY 699 Directed Study or ZOOLOGY 699 Directed Studies in Zoology course) as elective work in the major during or immediately after their internship.

A maximum of 10 credits of directed study (698, 699), senior honors thesis (681, 682), senior thesis (691, 692), or internships (F&W ECOL 399 Coordinative Internship/Cooperative Education, ZOOLOGY 677 Internship in Ecology) will count toward the major.

## HOW TO GET IN

To declare the conservation biology major, students must make an appointment (<https://conservationbiology.ls.wisc.edu/requirements/#how-to-declare>) with the program's Academic Advising Manager.

If students are not currently in the College of Letters & Science (L&S), they must transfer into L&S before declaring. Students are welcome to meet with the Academic Advising Manager to discuss the major before transferring.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.



L&S Breadth Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced Coursework Complete at least 60 credits at the Intermediate or Advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

Quality of Work • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Conservation biology majors must take at least **50 credits** in the major. When selecting courses to meet major requirements, students are encouraged to meet with their Academic Advising Manager to discuss courses that align with their areas of academic interest.

### INTRODUCTORY COURSES

Code	Title	Credits
<b>Introductory Biology</b>		<b>10</b>

Complete one of the following options:

*Option 1:*

BIOLOGY/ ZOOLOGY 101	Animal Biology
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BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory
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BIOLOGY/ BOTANY 130	General Botany
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*Option 2:*

BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology
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BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology
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*Option 3:*

Complete at least 10 credits from the following:

BIOCORE 381	Evolution, Ecology, and Genetics
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BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
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BIOCORE 383	Cellular Biology
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BIOCORE 384	Cellular Biology Laboratory
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BIOCORE 485	Principles of Physiology
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BIOCORE 486	Principles of Physiology Laboratory
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### Chemistry **4-5**

Complete one of the following:

CHEM 103	General Chemistry I
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CHEM 108	Chemistry in Our World
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CHEM 109	Advanced General Chemistry (for those who might take more chemistry)
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### Physical Environment **3-5**

Complete one of the following:

ATM OCN/ GEOSCI 105	Survey of Oceanography
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ENVR ST/ GEOSCI 106	Environmental Geology
------------------------	-----------------------

ENVR ST/ GEOG 120	Introduction to the Earth System
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ENVR ST/ GEOG 127	Physical Systems of the Environment
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GEOSCI 100	Introductory Geology: How the Earth Works
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### Ecology and Evolution **6-7**

Complete two of the following, each from a different category (students are encouraged to take courses in all three areas):

*Ecology:*

BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology
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*Evolution:*

GEOSCI 110	Evolution and Extinction
or ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology

*Extinction:*

ENVR ST/F&W ECOL/ZOOLOGY 360	Extinction of Species
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### Statistics **3**

Complete one of the following:

STAT 240	Data Science Modeling I
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STAT 301	Introduction to Statistical Methods
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STAT 371	Introductory Applied Statistics for the Life Sciences
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## SPECIES & FIELD BIOLOGY

Code	Title	Credits
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Complete 12 credits from:

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
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ENTOM/ ZOOLOGY 371	Medical Entomology
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology
AN SCI/ F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin
ANTHRO 391	Bones for the Archaeologist
ANTHRO 420	Introduction to Primatological Research
ANTHRO 458	Primate Behavioral Ecology
ANTHRO 668	Primate Conservation
BOTANY 330	Algae
BOTANY/ PL PATH 332	Fungi
BOTANY 400	Plant Systematics
BOTANY 401	Vascular Flora of Wisconsin
BOTANY/ F&W ECOL 402	Dendrology
BOTANY 422	Plant Geography
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
BOTANY/ ENTOM/ ZOOLOGY 473	Plant-Insect Interactions
ENTOM/ ZOOLOGY 302	Introduction to Entomology
ENTOM 331	Taxonomy of Mature Insects
ENTOM 432	Taxonomy and Bionomics of Immature Insects
ENTOM 468	Studies in Field Entomology
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources
ENVIR ST 375	Field Ecology Workshop
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology
F&W ECOL 401	Physiological Animal Ecology
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
F&W ECOL 655	Animal Population Dynamics
GEOSCI/ ZOOLOGY 541	Paleobiology
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology
LAND ARC/ ENVIR ST 361	Wetlands Ecology
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory

M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
PSYCH 449	Animal Behavior <sup>1</sup> or ZOOLOGY 42 Behavioral Ecology
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
ZOOLOGY 304	Marine Biology
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
ZOOLOGY 430	Comparative Anatomy of Vertebrates

## ELECTIVES

Code	Title	Credits
<b>Social Science Electives</b>		
Complete at least one 3 credit course from Social Science elective list:		
A A E 215	Introduction to Agricultural and Applied Economics	
A A E/ ENVIR ST 244	The Environment and the Global Economy	
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany	
C&E SOC/ SOC 140	Introduction to Community and Environmental Sociology	
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	
ECON 101	Principles of Microeconomics	
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	
ENVIR ST/ GEOG 139	Global Environmental Issues	
ENVIR ST/ AMER IND 306	Indigenous Peoples and the Environment	
ENVIR ST/ GEOG 339	Environmental Conservation	
ENVIR ST/ PHILOS 441	Environmental Ethics	
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	
GEOG 344	Changing Landscapes of the American West	
GEOG 359	Australia: Environment and Society	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	

LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience
<b>Electives to attain 50 credits in the major</b>	
AGRONOMY/ HORT 376	Tropical Horticultural Systems
ANTHRO 405	Introduction to Museum Studies in Anthropology
ATM OCN 100	Weather and Climate
ATM OCN 101	Weather and Climate
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
BOTANY/ PL PATH 123	Plants, Parasites, and People
BOTANY/ ENVIR ST/ ZOOLOGY 260	Introductory Ecology
BOTANY 300	Plant Anatomy
BOTANY 305	Plant Morphology and Evolution
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach
BOTANY/ ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
ENTOM/ ENVIR ST 201	Insects and Human Culture—a Survey Course in Entomology
ENTOM/ ZOOLOGY 540	Theoretical Ecology
ENTOM 699	Special Problems
ENVIR ST/ILS 126	Principles of Environmental Science
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource
ENVIR ST 307	Literature of the Environment: Speaking for Nature
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality
ENVIR ST/ CIV ENGR/ GEOG 377	An Introduction to Geographic Information Systems
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ GEOG 537	Culture and Environment
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues

F&W ECOL 375	Special Topics (Freshwater Conservation)
F&W ECOL 410	Principles of Silviculture
F&W ECOL 561	Wildlife Management Techniques
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology
F&W ECOL 699	Special Problems
GENETICS 466	Principles of Genetics
GENETICS 467	General Genetics 1
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOSCI/ G L E 627	Hydrogeology
LAND ARC 211	Shaping the Built Environment
MICROBIO 101	General Microbiology
MICROBIO 102	General Microbiology Laboratory
PL PATH 300	Introduction to Plant Pathology
PL PATH 315	Plant Microbiomes
SOIL SCI 301	General Soil Science
ZOOLOGY 405	Introduction to Museum Studies in the Natural Sciences

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence <sup>2</sup>
- 15 credits in the major, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Conservation Biology Major in consultation with the Conservation Biology undergraduate advisor.

## HONORS IN THE CONSERVATION BIOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Conservation Biology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Complete at least 16 credits, taken for Honors, with a grade of B or better, in the conservation biology major, to include a two-semester Senior Honors Thesis in an appropriate department <sup>3</sup>

## FOOTNOTES

1

Students may NOT apply both ZOOLOGY 425 Behavioral Ecology and PSYCH 449 Animal Behavior in the conservation biology program.

2

Courses in the major numbered 300 through 699 are considered upper level.

## 3

Examples include Botany, Zoology, Environmental Studies; see the Conservation Biology advisor to verify that your thesis department will be acceptable.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

The Conservation Biology road map is a tool to assist you and your advisor in planning your academic career. Use it along with your DARS report and the Course Guide/Schedule of Classes. Your specific program of study could, and probably will, look different. You should customize the road map to fit your unique path at UW–Madison. Consult with your advisor about the best path for you.

### Freshman

Fall	Credits	Spring	Credits
Communication A <sup>1</sup>		3 I/A COMP SCI or MATH (if required for the BS)	3-5
Quantitative Reasoning A	3-5	Ethnic Studies <sup>2</sup>	3
Foreign Language (if needed)		3-4 Social Science Breadth	3
CHEM 103		4 Elective	3
		<b>16</b>	<b>14</b>

### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 <sup>3</sup>		5 BOTANY/BIOLOGY 130	5
INTER-LS 210 <sup>4</sup>		1 Communication B	3
STAT 301, 371, or 240		3-4 Physical Environment	3-5
Humanities Breadth		3 Social Science Elective in the Major	3-4
Elective		3	
		<b>15</b>	<b>15</b>

### Junior

Fall	Credits	Spring	Credits
Ecology and Evolution		3-4 Species & Field Biology	3
Species & Field Biology		3 Humanities Breadth	3-4
Humanities Breadth		3-4 Social Science Breadth	3-4
Elective		3-4 Elective	3-4
		<b>15</b>	<b>15</b>

### Senior

Fall	Credits	Spring	Credits
Ecology and Evolution		3-4 Species & Field Biology	3
Species & Field Biology		3 Elective credit in the major (if needed for 50 credits)	3-4
Humanities Breadth		3-4 Social Science Breadth	3-4
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651 <sup>5</sup>		3 Elective	4-5
		<b>14</b>	<b>16</b>

### Total Credits 120

## 1

While most incoming freshman are required to complete coursework to fulfill the Communication A requirement, students may be exempted by approved college coursework while in high school, AP test scores, or placement testing. Students are expected to satisfy this requirement by the end of their first year of undergraduate study.

## LEARNING OUTCOMES

1. Explain the basic concepts of ecology and evolution and how they underpin and apply to the science of conservation biology.
2. Understand and explain the scientific process as related to conservation biology, including the relevance of theories and how hypotheses are tested.
3. Recognize species within some particular group of organisms and explain key aspects of their ecology, phylogeny, and conservation needs.
4. Apply general ecological principles to assess and address conservation threats to particular species, communities, and ecosystems.
5. Investigate and communicate the connections between the biological and social sciences and humanities as they affect conservation programs and activities.
6. Identify, interpret, and communicate conservation ideas, needs and programs to others.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

2

Students are expected to complete the Ethnic Studies requirement within the first 60 credits of undergraduate study.

3

There are three options for Introductory Biology -- please consult the Requirements page of this Guide for more information. The Communication B requirement can be fulfilled by completion of ZOOLOGY/BIOLOGY/BOTANY 152 or BIOCORE 381, BIOCORE 382, or BIOCORE 384 if you choose to take those courses for Introductory Biology.

4

INTER-LS 210 L&S Career Development: Taking Initiative is recommended, but not required for students pursuing the Conservation Biology major.

5

Suggested elective class if needed for 50 credits in the major

## ADVISING AND CAREERS

### ADVISING

Students in the conservation biology major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<https://conservationbiology.ls.wisc.edu/advising/>) for a list of advisors and for the student services coordinator information.

The faculty advisor provides guidance specific to the discipline through discussions about undergraduate experiences (e.g., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline but helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward graduation, as well as connecting students with important resources on campus. **Because the major is so broad and involves so much choice, it is important for students to meet early and regularly with their student services coordinator and faculty advisor.**

Students contemplating graduate work in a biological discipline are advised to take the following:

Code	Title	Credits
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
ANTHRO/ BOTANY/ ZOOLOGY 410	Evolutionary Biology	
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	

Although not required for the major, such students are also encouraged to take the following:

Code	Title	Credits
CHEM 104	General Chemistry II	
GENETICS 466	Principles of Genetics	
PHYSICS 103	General Physics	
PHYSICS 104	General Physics	
MATH 221	Calculus and Analytic Geometry I	

### PERSONAL STATEMENT

The Personal Statement Requirement (<https://conservationbiology.ls.wisc.edu/requirements/>), completed during your final year, gives you an opportunity to work with your faculty advisor on this writing requirement that connects your UW-Madison experiences to your future. Through your writing and conversations, you will be evaluated on one of the major's learning goals.

### HOW DOES IT WORK?

1. Set up an appointment with your faculty advisor in your final year and indicate the meeting is regarding the personal statement requirement.
2. Send to your faculty advisor, in advance of the meeting, your choice of a cover letter for a position of interest, a personal plan for graduate school, or your own two-page personal statement related to the stated learning goal.
3. Bring along a hard copy of the evaluation form to be completed and signed by your faculty advisor and then submit evaluation to the Conservation Biology Student Services Coordinator, 141 Birge Hall.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students

- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Committee of Advisors: Cameron (Botany, chair of major), Givnish (Botany), Hotchkiss (Botany/Environmental Studies), Ives (Zoology), Pigeon (Forest & Wildlife Ecology), Schoville (Entomology), Strier (Anthropology), Vander Zanden, Waller (Botany), Zuckerberg (Forest and Wildlife Ecology)

## RESOURCES AND SCHOLARSHIPS

### ROLAND H. & MAUDE M. BECKER SCHOLARSHIP

Established by Barbara B. Glass in 1988 in memory of her parents, the Roland & Maude Becker Scholarship (<https://conservationbiology.ls.wisc.edu/scholarships/>) provides financial assistance to students with a major in conservation biology. The scholarship is a one-time award to help support a conservation experience related to the major. A conservation experience may include an undergraduate research experience, internship experience, study abroad program, etc. Awards will be in the amount of \$500 and up to two awards will be awarded per academic year.

### SUCCESSWORKS SUMMER INTERNSHIP SCHOLARSHIP

This scholarship (<https://careers.ls.wisc.edu/ls-finding-an-internship-money-for-your-internship/>) provides amounts ranging from \$2,000 to \$5,000 each to help students take advantage of and enable them to participate in a first time internship opportunity that is unpaid or provides a limited stipend.

### HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP

The Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 97–100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

### HOLSTROM ENVIRONMENTAL RESEARCH FELLOWSHIP

The Holstrom Environmental Research Fellowship (<https://awards.advising.wisc.edu/all-scholarships/holstrom-environmental-research-fellowship/>) supports undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least a junior standing at time of application. Apply spring semester to fund work on the project during the summer or following academic year.

### UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity, achievement, research, service-learning and community-based research

from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences. This past year nearly 700 students presented, displayed or performed their work for members of the university, the surrounding community, family and friends.

### WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working toward solving a challenge identified along with local or global community partners. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## CENTER FOR LAW, SOCIETY, AND JUSTICE

The Center for Law, Society, and Justice offers an undergraduate major in the College of Letters & Science. The program mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation of law and legal institutions. Courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around five themes, each of which is associated with a group of courses, and each of which incorporates comparative and historical approaches.

### THEME GROUP 1: LEGAL INSTITUTIONS

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

### THEME GROUP 2: PROCESSES OF LEGAL ORDER AND DISORDER

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order." This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

## THEME GROUP 3: LAW AND SOCIAL FORCES

This theme group explores the intersection between law, social structures, and social movements. Courses in this group address social inequality, generally in the US context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

## THEME GROUP 4: LAW AND CULTURE

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

## THEME GROUP 5: LAW AND THEORY

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many theorists, explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

### DEGREES/MAJORS/CERTIFICATES

- Criminal Justice, Certificate (p. 559)
- Legal Studies, B.A. (p. 562)
- Legal Studies, B.S. (p. 569)

## CRIMINAL JUSTICE, CERTIFICATE

The Criminal Justice Certificate Program (CJCP) includes an interdisciplinary sequence of classes and an internship, for students interested in the American criminal and juvenile justice systems. Certificate

students select courses in legal studies and from the departments of Sociology, Political Science, Social Work, Psychology, Gender and Women's Studies, Anthropology, History, Human Development and Family Studies, Rehabilitation Psychology, Integrated Liberal Studies, and Counseling Psychology. Students gain a broad understanding of the philosophy, theories, and operation of the adult and juvenile justice systems.

### HOW TO GET IN

Any undergraduate regardless of major or college affiliation may earn this certificate. Students interested in earning a certificate in criminal justice must declare the certificate with the Criminal Justice advisor. Students are encouraged to declare the certificate as early as possible within their college careers. Field work/internship/research seminar courses require advanced planning and authorization by the administering program.

### REQUIREMENTS

To earn a criminal justice certificate, a student must complete all requirements for a bachelor's degree, requirements of the declared major(s), and graduate from UW-Madison. In addition, students must take all required certificate courses for a letter grade versus pass/fail. It is not necessary to take classes in any particular sequence; however, individual courses may have prerequisites.

## REQUIREMENTS FOR THE CERTIFICATE

The certificate requires a minimum of six courses and a minimum of 14 credits. The courses must be distributed as follows:

Code	Title	Credits
Complete one course from each of the six defined Groups		
Of the six courses, one course should be related to race and justice studies.		

### GROUP 1—CRIMINAL JUSTICE SYSTEM

Code	Title	Credits
LEGAL ST/SOC 131	Criminal Justice in America	3-4

### GROUP 2—THEORIES OF CRIME AND DEVIANT BEHAVIOR

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
SOC WORK 612	Psychopathology in Generalist Social Work Practice	2
SOC WORK 643	Social Work and Delinquency	2-3

### GROUP 3—CRIME AND JUSTICE/ OPERATIONS OF THE JUSTICE SYSTEM

Code	Title	Credits
HISTORY/LEGAL ST 426	The History of Punishment	3-4
LEGAL ST/ GEN&WS/SOC 425	Crime, Gender and Justice	3
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/ SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/L IS 460	Surveillance, Privacy, and Police Powers	3
POLI SCI 314	Criminal Law and Justice	3-4
PSYCH 401	Psychology, Law, and Social Policy	3

### GROUP 4—BROADER PSYCHO/SOCIO/ ECONOMIC PROCESSES RELATED TO CRIMINAL JUSTICE

Code	Title	Credits
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
ANTHRO 448	Anthropology of Law	3
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3
HISTORY/LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HDFS 474	Racial Ethnic Families in the U.S.	3
LEGAL ST/ RP & SE 135	Disability and the Criminal Justice System	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/GEN&WS 422	Women and the Law	3
LEGAL ST/CHICLA/ SOC 443	Immigration, Crime, and Enforcement	3-4
LEGAL ST 444	Law in Action	3
LEGAL ST 450	Topics in Legal Studies and the Humanities	3
LEGAL ST/ HISTORY 477	History of Forensic Science	3
LEGAL ST/SOC 641	Sociology of Law	3-4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
PSYCH 405	Abnormal Psychology	3-4
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC 633	Social Stratification	3
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK 453	Substance Use Disorders	3
SOC WORK 462	Child Welfare	3
SOC WORK 523	Family Violence	3
SOC WORK 627	Sex Trafficking and Sex Trading	2

SOC WORK 640	Diversity, Oppression and Social Justice in Social Work	3
SOC WORK 646	Child Abuse and Neglect	2

### GROUP 5—ETHNOGRAPHY—INTERNSHIP PREP

Code	Title	Credits
COM ARTS 371	Communication and Conflict Resolution	3
COM ARTS 373	Intercultural Communication & Rhetoric	3
COM ARTS 565	Communication and Interethnic Behavior	3
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change	3
COUN PSY 237	Mental Health, Self-Awareness, and Social Justice: Working in Diverse Communities	3
COUN PSY 325	Seminar: Students Seeking Educational Equity and Diversity (SEED)	3-4
COUN PSY 650	Theory and Practice in Interviewing	3
COUN PSY 655	Clinical Communication Skills	3
HISTORY 300	History at Work: Professional Skills of the Major	1-2
INTER-HE 202	SoHE Career & Leadership Development	1
INTER-LS 210	L&S Career Development: Taking Initiative	1
INTER-LS 215	Communicating About Careers	3
POLI SCI 316	Careers in Political Science	1
SOC 205	Intercultural Dialogues	3
SOC WORK 441	Generalist Practice with Individuals, Families and Groups	3

### GROUP 6—FIELDWORK/INTERNSHIP/ RESEARCH SEMINAR

The primary internship course administered by our program is LEGAL ST/ SOC 694. The course requires a concurrent internship. To be eligible for the course, students complete a pre-internship placement process the semester prior to the internship. The pre-internship process begins with a required orientation.

The other listed internship and research opportunities are administered by other programs. Some may be limited to students who are declared in those specific programs. All require advance lead time and authorization for enrollment by the specific program.

Code	Title	Credits
CSCS 601	Internship	1-6
GEN&WS 660	Internship in Gender and Women's Studies	3
LEGAL ST 473	Health Impacts of Unmet Social Needs	3
LEGAL ST/SOC 694	Criminal Justice Field Observation	3



HDFS 592	Research Experience in Human Development and Family Studies	1-3
HDFS 601	Internship	1-8
POLI SCI 315	Legislative Internship	3
POLI SCI 402	Wisconsin in Washington Internship Course	4
PUB AFFR 327	Administrative Internship	3
RP & SE 630	Internship in Rehabilitation or Special Education	2-6
SOC 320	Research Practicum in Sociology	1-3
SOC WORK 400	Field Practice and Integrative Seminar I	2-6

## RACE AND JUSTICE STUDIES

At least one course in the certificate must have substantial content dealing with race and justice studies. For this requirement, a course can count both for purposes of meeting a Group requirement and the Race and Justice Studies requirement. The following courses fulfill the Race and Justice Studies requirement.

Code	Title	Credits
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
HDFS 474	Racial Ethnic Families in the U.S.	3
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/ SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/CHICLA/ SOC 443	Immigration, Crime, and Enforcement	3-4
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK 640	Diversity, Oppression and Social Justice in Social Work	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC 633	Social Stratification	3

## ELECTIVES

Students can take additional courses from any category as needed to meet the 14 credit minimum.

## RESIDENCE AND QUALITY OF WORK

- At least 7 certificate credits must be completed in residence
- Minimum 2.000 GPA on all certificate courses.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. To develop an appreciation for how the criminal justice system works and how it affects American society as a whole.
2. To develop and improve critical thinking and analytics in written and oral communication skills.
3. To develop an appreciation of mental health and substance abuse as they intersect with the criminal justice system.
4. To develop skills transferable to future professional, community and educational pursuits.

## ADVISING AND CAREERS

### ADVISING

#### ADVISING APPOINTMENTS: PLEASE SCHEDULE VIA STARFISH ([HTTPS://ADVISING.WISC.EDU/FACSTAFF/STARFISH/STARFISH-STUDENT-RESOURCES/](https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/))

1. Log in to your MyUW (<http://my.wisc.edu/>)
2. Open the **Starfish** app (if you do not see it, you can begin by searching for it in MyUW and adding it to your dashboard)
3. Within the Starfish app, select Martine Delannay or Micha Schwab and find an available date and time

More help on using Starfish can be found here: <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>.

If you are not a UW student, please email us at [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu) to schedule a meeting.

### CAREERS

CJCP graduates have secured jobs in police departments, district attorneys' offices, public defenders' offices, juvenile group homes, adult halfway houses, public schools, and prisons. They have been involved in restitution programs, deferred prosecution alternatives, victim-witness projects, and home detention/electronic monitoring experiments. The options are numerous and interesting. Many CJCP students pursue a degree in law or attend graduate school in a related field.

SuccessWorks (<http://careers.ls.wisc.edu/>) at the College of Letters & Science provides students with a wide range of career-related services.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## WISCONSIN EXPERIENCE

All students complete an intensive internship with an agency or organization related to the criminal and juvenile justice fields. Involvement in the CJCP provides a solid educational foundation in criminal justice. It introduces students to basic concepts about our justice system and the individuals it serves. It encourages exploration of critical issues facing the system today and fosters investigation into realistic solutions.

## LEGAL STUDIES, B.A.

Legal studies is an undergraduate major in the College of Letters & Science. The program's mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation of law and legal institutions. The courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around the following five themes: Legal Institutions, Processes of Legal Order and Disorder, Law and Social Forces, Law and Culture, and Law and Theory.

### Theme Group 1: Legal Institutions

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

### Theme Group 2: Processes of Legal Order and Disorder

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order." This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

### Theme Group 3: Law and Social Forces

This theme group explores the intersection between law, social structures, and social movements. Courses in this group address social inequality, generally in the US context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

### Theme Group 4: Law and Culture

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

### Theme Group 5: Law and Theory

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many theorists, explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

## HOW TO GET IN

## REQUIREMENTS TO DECLARE THE MAJOR

Those wishing to declare the major should schedule an appointment with the legal studies advisor or email [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu).

**To declare the legal studies major, students must complete three (3) prerequisite courses with grades of C or better.** Students may be exempt from COMM-A by their English Placement score and from QR-A by their Math Placement score.

The three prerequisite courses consist of:

- a Communication A course;
- a Quantitative Reasoning A course; and
- one "Gateway Course" chosen from the list below.

### GATEWAY COURSES

Code	Title	Credits
Select one of the following:		
LEGAL ST/SOC 131	Criminal Justice in America	3-4
LEGAL ST/POLI SCI 217	Law, Politics and Society	

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

<b>Foreign Language</b>	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
<b>L&amp;S Breadth</b>	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>

<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
<b>Depth of Intermediate/Advanced work</b>	Complete at least 60 credits at the intermediate or advanced level.
<b>Major</b>	Declare and complete at least one major.
<b>Total Credits</b>	Complete at least 120 credits.
<b>UW-Madison Experience</b>	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

11 total courses in the following categories and a minimum of 33 credits.

#### THEME: LEGAL INSTITUTIONS

Two courses required from:

Code	Title	Credits
<i>Theme Group 1: Legal Institutions</i>		
ELPA/ED POL 542	Law and Public Education	3
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
GEOG 307	International Migration, Health, and Human Rights	3
LEGAL ST/HISTORY 261	American Legal History to 1860	3
LEGAL ST/HISTORY 262	American Legal History, 1860 to the Present	3

LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
LEGAL ST 409	Human Rights in Law and Society	3	INTL ST 601	Topics in Global Security (Topic: International Criminal Justice: Models & Practice)	1-4
LEGAL ST/SOC 415	The Legal Profession	3-4	LEGAL ST/L IS 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST 444	Law in Action	3	LEGAL ST/SOC 694	Criminal Justice Field Observation	2-3
LEGAL ST 450	Topics in Legal Studies and the Humanities	3-4	POLI SCI 314	Criminal Law and Justice	3-4
LEGAL ST/LAW/SOC 641	Sociology of Law	3-4	PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
POLI SCI 304	The Political Economy of Race in the United States	3-4	PSYCH 601	Current Topics in Psychology (*Juv Delin)	3
POLI SCI 311	United States Congress	3-4	R M I 615	Liability Risk Management	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4	SOC 421	Processes of Deviant Behavior	3-4
POLI SCI 347	Terrorism	3	SOC 441	Criminology	3-4
POLI SCI 349	Global Access to Justice	3	SOC 446	Juvenile Delinquency	3-4
POLI SCI 354	International Institutions and World Order	3-4			
POLI SCI 356	Principles of International Law	3-4	<b>Law and Social Forces</b>		
POLI SCI 405	State Government and Public Policy	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
POLI SCI 408	The American Presidency	3-4	<i>Theme 3: Law &amp; Social Forces</i>		
POLI SCI 411	The American Constitution : Powers and Structures of Government	4	AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4	AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
POLI SCI 414	The Supreme Court as a Political Institution	3	AFROAMER/GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
POLI SCI 417	The American Judicial System	3-4	AFROAMER/GEN&WS 625	Gender, Race and the Civil Rights Movement	3
POLI SCI/PUB AFFR 419	Administrative Law	3-4	AFROAMER 671	Selected Topics in Afro-American History (*Crim Blkns; Race & Inprison)	3
POLI SCI 432	Comparative Legal Institutions	3-4	AFROAMER 673	Selected Topics in Afro-American Society (*Race and Policing )	3
POLI SCI/INTL ST 434	The Politics of Human Rights	3-4	AMER IND 450	Issues in American Indian Studies (*Indigenous Rights *Nat Resources *Fed Ind Law *Ind Child Welfare)	3
POLI SCI/GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3	ECON 522	Law and Economics	3-4
POLI SCI/INTL ST 439	The Comparative Study of Genocide	3-4	ENVIR ST 349	Climate Change Governance	3
POLI SCI 470	The First Amendment	3-4	ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
POLI SCI 510	Politics of Government Regulation	3-4	GEN&WS 424	Women's International Human Rights	3
POLI SCI 538	Politics and Policies in the European Union	3-4	HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3
POLI SCI 601	Proseminar: Topics in Political Science (Topic: Supreme Court)	3	HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
POLI SCI 635	Comparative Politics of Sport	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
PUB AFFR 270	The Private and Public Sectors in Policymaking	3	HISTORY 500	Reading Seminar in History (*Chinese Law)	3

## THEME DISTRIBUTION

Four courses from at least three of the following Theme groups.

### Process of Legal Order and Disorder

Code	Title	Credits
<i>Theme 2: Processes of Legal Order &amp; Disorder</i>		
COM ARTS 371	Communication and Conflict Resolution	3
COM ARTS 671	Communication and Social Conflict	3

LEGAL ST/JEWISH/RELIG ST 203	Jewish Law, Business, and Ethics	3
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LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST/GEN&WS 422	Women and the Law	3
LEGAL ST/GEN&WS/SOC 425	Crime, Gender and Justice	3
LEGAL ST/ENVIR ST/HISTORY 430	Law and Environment: Historical and Contemporary Perspectives	3
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/CHICLA/SOC 443	Immigration, Crime, and Enforcement	3-4
LEGAL ST 473	Health Impacts of Unmet Social Needs	3
LEGAL ST/L IS 645	Intellectual Freedom	3
LEGAL ST/L IS 663	Introduction to Cyberlaw	3
POLI SCI/INTL ST 434	The Politics of Human Rights	3-4
PSYCH 311	Issues in Psychology (*Psychology of Law)	1-4
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 601	Current Topics in Psychology (*Legal Psych)	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

### Law and Culture

Code	Title	Credits
<i>Theme 4: Law &amp; Culture</i>		
ANTHRO 350	Political Anthropology	3-4
ANTHRO 448	Anthropology of Law	3
ENGL 142	Mystery and Crime Fiction	3
ENGL 174	Literature and Social Justice (*Law and Literature)	3
ENGL 548	Topic in Literature and Politics (*Guilt)	3
HISTORY 201	The Historian's Craft (*Shanghai Life)	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
ILS 371	Interdisciplinary Studies in the Arts and Humanities (*Books by Crooks)	3
LEGAL ST/HISTORY 477	History of Forensic Science	3
LEGAL ST/HISTORY 510	Legal Pluralism	3
LITTRANS 236	Bascom Course-In Translation (*Extreme Stories)	3
LITTRANS 324	Topics in Scandinavian Literature (*Criminal Utopias)	3-4

### Law and Theory

Code	Title	Credits
<i>Theme 5: Law &amp; Theory</i>		
HISTORY/LEGAL ST 476	Medieval Law and Society	3
LEGAL ST 407	Jurisprudence and Social Issues	3
LEGAL ST/HISTORY 426	The History of Punishment	3-4
LEGAL ST/HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
JOURN 563	Law of Mass Communication	4
MED HIST/PHILOS 558	Ethical Issues in Health Care	3
PHILOS 304	Topics in Philosophy: Humanities (Philos and Criminal Punishment)	3-4
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS/MED HIST/AGRONOMY/C&E SOC 565	The Ethics of Modern Biotechnology	3

### METHODS AND RESEARCH

Two courses, one each from:

Code	Title	Credits
<b>Research Design</b>		
POLI SCI 170	Research Methods in Political Science	
POLI SCI/JOURN/URB R PL 373	Introduction to Survey Research	
PSYCH 225	Research Methods	
PUB AFFR 240	Evidence-Based Policy Making	
PUB AFFR 380	Analytic Tools for Public Policy	
SOC/C&E SOC 357	Methods of Sociological Inquiry	
<b>Statistics</b>		
ECON 310	Statistics: Measurement in Economics	
GEN BUS 306	Business Analytics I	
PSYCH 210	Basic Statistics for Psychology	
SOC/C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

### CORE PERSPECTIVES

Please note: Though some courses may appear in more than one Theme Group and/or Core Perspective, a single course will only satisfy one (and only one) requirement. Courses will not be double counted.

Code	Title	Credits
<b>One Core Perspective course:</b>		
LEGAL ST/HISTORY 261	American Legal History to 1860	
LEGAL ST/HISTORY 262	American Legal History, 1860 to the Present	

LEGAL ST 400	Topics in Legal Studies and the Social Sciences		
LEGAL ST 407	Jurisprudence and Social Issues		
LEGAL ST 409	Human Rights in Law and Society		
LEGAL ST/ GEN&WS/ SOC 425	Crime, Gender and Justice		
LEGAL ST/ HISTORY 426	The History of Punishment		
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment		
LEGAL ST/ CHICLA/ SOC 440	Ethnicity, Race, and Justice		
LEGAL ST/ CHICLA/ SOC 443	Immigration, Crime, and Enforcement		
LEGAL ST 450	Topics in Legal Studies and the Humanities		
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models		
LEGAL ST/ L I S 460	Surveillance, Privacy, and Police Powers		
LEGAL ST/ HISTORY 477	History of Forensic Science		
LEGAL ST/ HISTORY 510	Legal Pluralism		
LEGAL ST 600	Special Topics in Legal Studies		
LEGAL ST/SOC 641	Sociology of Law		
<b>Electives</b>			
<i>Choose either a Senior Thesis...</i>			
LEGAL ST 681 & LEGAL ST 682	Senior Honors Thesis and Senior Honors Thesis		
LEGAL ST 691 & LEGAL ST 692	Senior Thesis and Senior Thesis		
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis		
<i>... or two additional Theme courses from above</i>			
<b>GLOBAL LEGAL SYSTEMS</b>			
At least two courses in the major must have substantial content dealing with countries or cultures outside the United States, or with the international legal system. For this requirement, a course can count both for purposes of meeting the Distribution requirement above and the Global Legal Systems requirement. The following courses fulfill the Global Legal Systems requirement:			
<b>Code</b>	<b>Title</b>	<b>Credits</b>	
<b>Two Global Legal Systems courses:</b>			
ANTHRO 350	Political Anthropology	3-4	
ANTHRO 448	Anthropology of Law	3	
ENGL 174	Literature and Social Justice (*Law and Literature)	3	
ENGL 548	Topic in Literature and Politics (*Guilt)	3	
GEN&WS 424	Women's International Human Rights	3	
GEOG 307	International Migration, Health, and Human Rights	3	
HISTORY 201	The Historian's Craft (Topic: Shanghai Life and Crime)	3-4	
HISTORY 500	Reading Seminar in History (Topic: Chinese Law)	3	
INTL ST 601	Topics in Global Security (Topic: International Criminal Justice)	1-4	
LEGAL ST/JEWISH/ RELIG ST 203	Jewish Law, Business, and Ethics	3	
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Law, Sexuality and Society)	3-4	
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Law, Justice and Climate Change)	3-4	
LEGAL ST 409	Human Rights in Law and Society	3	
LEGAL ST/SOC 425	Crime, Gender and Justice	3	
LEGAL ST/HISTORY 426	The History of Punishment	3-4	
LEGAL ST/ ENVIR ST/ HISTORY 430	Law and Environment: Historical and Contemporary Perspectives	3	
LEGAL ST 450	Topics in Legal Studies and the Humanities (Topic: Criminal Justice and Popular Culture)	3-4	
LEGAL ST 450	Topics in Legal Studies and the Humanities (Courts, Constitutionalism and Human Rights)	3-4	
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4	
LEGAL ST/ HISTORY 476	Medieval Law and Society	3	
LEGAL ST/ HISTORY 477	History of Forensic Science	3	
LEGAL ST/HISTORY 510	Legal Pluralism	3	
LEGAL ST 600	Special Topics in Legal Studies	1-3	
LITTRANS 236	Bascom Course-In Translation (Topic: Extreme Stories)	3	
LITTRANS 324/ SCAND ST 436	Topics in Scandinavian Literature (Topic: Criminal Utopias)	3-4	
POLI SCI 340	The European Union: Politics and Political Economy	3-4	
POLI SCI 347	Terrorism	3	
POLI SCI 349	Global Access to Justice	3	
POLI SCI 354	International Institutions and World Order	3-4	
POLI SCI 356	Principles of International Law	3-4	
POLI SCI 401	Selected Topics in Political Science (Topic: Global Access to Justice)	3-4	
POLI SCI 432	Comparative Legal Institutions	3-4	

POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 635	Comparative Politics of Sport	3-4

## RACE AND JUSTICE STUDIES

At least one course in the major must have substantial content dealing with race and justice studies. For this requirement, a course can count both for purposes of meeting the Distribution requirement above and the Race and Justice Studies requirement. The following courses fulfill the Race and Justice Studies requirement.

Code	Title	Credits
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Topic: Criminal Injustice in America)	3-4
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/ SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/CHICLA/ SOC 443	Immigration, Crime, and Enforcement	3-4
PUB AFFR 520	Inequality, Race and Public Policy	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LEGAL ST and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in LEGAL ST and courses for the major, taken on campus

## HONORS IN THE MAJOR

Students may apply for admission to Honors in the Legal Studies Major in consultation with the Legal Studies undergraduate advisor(s).

## HONORS IN THE LEGAL STUDIES MAJOR: ENTRANCE REQUIREMENTS

- Declaration of the legal studies major
- A 3.300 University GPA
- A 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Completion of or current enrollment in, for Honors credit, at least one course accepted in the major

## HONORS IN THE LEGAL STUDIES MAJOR: REQUIREMENTS

To earn Honors in the Major in Legal Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Complete the research design and statistics requirements for the regular major prior to enrollment in the Senior Honors Thesis (typically junior year)
- Complete 15 credits in the major, taken for Honors, earning a B or better grade in each course
- Complete a two-semester Senior Honors thesis in LEGAL ST 681 and LEGAL ST 682, for a total of 6 credits.

## FOOTNOTES

1

Upper-level in the major includes all LEGAL ST and major courses that are designated Intermediate or Advanced level.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Analyze and articulate their own arguments about how social, political, and cultural phenomena shape law and legal systems.

- Analyze and articulate their own arguments about the social, political, and cultural impacts of law at the societal and individual levels.
- Demonstrate knowledge about how legal ideas and ideologies have changed over time and have shaped law and legal systems.
- Demonstrate their abilities to find, interpret, and utilize resources relevant to law and society.
- Demonstrate their abilities to analyze information, to write clearly and persuasively, and to construct original arguments.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A (complete during the first year)	3	Ethnic Studies (complete within first 60 credits)	3
Quantitative Reasoning A (complete during the first year)	3	Humanities Breadth	3
Foreign Language (if needed)	3-4	Biological Science Breadth	3
LEGAL ST/SOC 131 or 217	3-4	Foreign Language (if needed for the B.A.)	3-4
First-Year Seminar (optional)	1	I/A COMP SCI, MATH, or STAT (if required for the BS)	3-4
	<b>13</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Legal Studies Theme Course	3	Legal Studies Theme Course	3
Literature Breadth	3	Communication B	3-4
Statistics (also satisfies Quantitative Reasoning B)	3-4	Research Design requirement	3-4
Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Legal Studies Theme Course	4	Legal Studies Theme Course	4
Legal Studies Theme Course (non US focus)	3	Legal Studies Theme Course (non US focus)	3
Literature Breadth	3	Humanities Breadth	3

Elective	3	Elective	3
Science Breadth	3	Elective	3
	<b>16</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Additional Theme Course or First Semester Senior Thesis	3	Additional Theme Course or Second Semester Senior Thesis	3
Core Perspectives Course	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING APPOINTMENTS: PLEASE SCHEDULE VIA STARFISH ([HTTPS://ADVISING.WISC.EDU/FACSTAFF/STARFISH/STARFISH-STUDENT-RESOURCES/](https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/))

- Log in to your MyUW (<http://my.wisc.edu/>)
- Open the **Starfish** app (if you do not see it, you can begin by searching for it in MyUW and adding it to your dashboard)
- Within the Starfish app, select Martine Delannay and find an available date and time

More help on using Starfish can be found here: <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>.

If you are not a UW student, please email us at [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu) to schedule a meeting.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:



- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

broad social dynamics with the rise of organized social movements that use law as an arena in which to reassess social life and values.

### Theme Group 4: Law and Culture

This theme group introduces students to legal thought, institutions, and practices beyond mainstream or contemporary legal systems, specifically modern Euro-American legal cultures. Courses in this theme group present either culturally based challenges to mainstream modern legal systems or legal systems that are culturally or historically distinct from them. The comparative study of distinct legal traditions and movements forces us to reexamine the cultural presuppositions embedded in modern legal systems, revealing both good reasons for defending mainstream Euro-American laws and arguments and models for changing or questioning prevailing systems. Courses examine historical developments in or affecting law, non-Western legal thought or traditions, and the effect of cultural institutions such as religion, literature, or media on law.

### Theme Group 5: Law and Theory

Many theoretical and philosophical questions are articulated as propositions about law: its nature, sources, contents, and relations to other aspects of social life. While only some philosophers or social, political or legal theorists work specifically in the area of "legal theory," almost all work in any of these areas contributes to our understanding of the sources and nature of law, legal institutions and legal practices, and for many theorists, explicit discussions of law are central elements of their work. Courses in this theme group focus on the ways in which "law" is treated as a working concept or as a subject of study in theoretical works, and conversely on how understandings drawn from theoretical writings inform our own understanding of law in all its dimensions.

## LEGAL STUDIES, B.S.

Legal studies is an undergraduate major in the College of Letters & Science. The program's mission is to provide a liberal education across traditional disciplines, focusing on the theory and operation of law and legal institutions. The courses in the legal studies major expose students to the many facets of law as a social phenomenon—its evolution, function, motivating ideas and effects. The major is not intended as preparation for law school because the emphasis is on exploring broadly defined questions about law from a variety of perspectives, rather than on training for the profession. The legal studies major is, however, suitable for pre-law students.

The curriculum is designed around the following five themes: Legal Institutions, Processes of Legal Order and Disorder, Law and Social Forces, Law and Culture, and Law and Theory.

### Theme Group 1: Legal Institutions

Institutions are at the core of social life. They govern our interactions, distribute power and resources, and influence how we make sense of the world. Courses in this theme group focus on those institutions involved in the creation and application of law. They explore such questions as how legal institutions evolve; how legal institutions help determine the shape of law—in doctrine and in action—and how and whether, in turn, legal institutions can be shaped to create different social outcomes. Institutions are central to the studies of society and politics throughout the disciplines, and courses in the group include perspectives from history, anthropology, sociology, political science, and political theory.

### Theme Group 2: Processes of Legal Order and Disorder

This theme examines the dynamics of order at the individual and societal level. In the course of this examination, students are made aware of the political and social biases that can underlie definitions of "order." This theme should also allow students to address how social and political biases relate to divisions of class, race and gender, and how the mechanisms of conflict resolution and order maintenance can be used to reinforce or challenge existing power structures.

### Theme Group 3: Law and Social Forces

This theme group explores the intersection between law, social structures, and social movements. Courses in this group address social inequality, generally in the US context, grounded in ethno-racial, gender, and sexuality-based difference. At critical points, the struggle for equality has taken pointedly legal form, whether in the shape of campaigns for legislative change or recognition, or through the litigation of particular cases. Legal categories have informed social identities. Equally, changing social identities have pushed back on legal categories. Courses integrate

## HOW TO GET IN

## REQUIREMENTS TO DECLARE THE MAJOR

Those wishing to declare the major should schedule an appointment with the legal studies advisor or email [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu).

**To declare the legal studies major, students must complete three (3) prerequisite courses with grades of C or better.** Students may be exempt from COMM-A by their English Placement score and from QR-A by their Math Placement score.

The three prerequisite courses consist of:

- a Communication A course;
- a Quantitative Reasoning A course; and
- one "Gateway Course" chosen from the list below.

## GATEWAY COURSES

Code	Title	Credits
Select one of the following:		
LEGAL ST/SOC 131	Criminal Justice in America	3-4
LEGAL ST/POLI SCI 217	Law, Politics and Society	

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison

• 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

11 total courses in the following categories and a minimum of 33 credits.

#### THEME: LEGAL INSTITUTIONS

Two courses required from:

Code	Title	Credits
<i>Theme Group 1: Legal Institutions</i>		
ELPA/ED POL 542	Law and Public Education	3
GEN BUS 301	Business Law	3
GEN BUS 302	Business Organizations and Negotiable Instruments	3
GEOG 307	International Migration, Health, and Human Rights	3
LEGAL ST/HISTORY 261	American Legal History to 1860	3
LEGAL ST/HISTORY 262	American Legal History, 1860 to the Present	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/SOC 415	The Legal Profession	3-4
LEGAL ST 444	Law in Action	3
LEGAL ST 450	Topics in Legal Studies and the Humanities	3-4
LEGAL ST/LAW/SOC 641	Sociology of Law	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 347	Terrorism	3
POLI SCI 349	Global Access to Justice	3
POLI SCI 354	International Institutions and World Order	3-4

POLI SCI 356	Principles of International Law	3-4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 510	Politics of Government Regulation	3-4
POLI SCI 538	Politics and Policies in the European Union	3-4
POLI SCI 601	Proseminar: Topics in Political Science (Topic: Supreme Court)	3
POLI SCI 635	Comparative Politics of Sport	3-4
PUB AFFR 270	The Private and Public Sectors in Policymaking	3

## THEME DISTRIBUTION

Four courses from at least three of the following Theme groups.

### Process of Legal Order and Disorder

Code	Title	Credits
<i>Theme 2: Processes of Legal Order &amp; Disorder</i>		
COM ARTS 371	Communication and Conflict Resolution	3
COM ARTS 671	Communication and Social Conflict	3
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
INTL ST 601	Topics in Global Security (Topic: International Criminal Justice: Models & Practice)	1-4
LEGAL ST/L I S 460	Surveillance, Privacy, and Police Powers	3
LEGAL ST/SOC 694	Criminal Justice Field Observation	2-3
POLI SCI 314	Criminal Law and Justice	3-4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 601	Current Topics in Psychology (*Juv Delin)	3
R M I 615	Liability Risk Management	3
SOC 421	Processes of Deviant Behavior	3-4
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4

### Law and Social Forces

Code	Title	Credits
<i>Theme 3: Law &amp; Social Forces</i>		
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3
AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
AFROAMER 671	Selected Topics in Afro-American History (*Crim Blkns; Race & Inprison)	3
AFROAMER 673	Selected Topics in Afro-American Society (*Race and Policing )	3
AMER IND 450	Issues in American Indian Studies (*Indigenous Rights *Nat Resources *Fed Ind Law *Ind Child Welfare)	3
ECON 522	Law and Economics	3-4
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
GEN&WS 424	Women's International Human Rights	3
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
LEGAL ST/JEWISH/ RELIG ST 203	Jewish Law, Business, and Ethics	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	3-4
LEGAL ST/GEN&WS 422	Women and the Law	3
LEGAL ST/ GEN&WS/SOC 425	Crime, Gender and Justice	3
LEGAL ST/ ENVIR ST/ HISTORY 430	Law and Environment: Historical and Contemporary Perspectives	3
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/ SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/CHICLA/ SOC 443	Immigration, Crime, and Enforcement	3-4
LEGAL ST 473	Health Impacts of Unmet Social Needs	3
LEGAL ST/L I S 645	Intellectual Freedom	3
LEGAL ST/L I S 663	Introduction to Cyberlaw	3

POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
PSYCH 311	Issues in Psychology (*Psychology of Law)	1-4
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 601	Current Topics in Psychology (*Legal Psych)	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

### Law and Culture

Code	Title	Credits
<i>Theme 4: Law &amp; Culture</i>		
ANTHRO 350	Political Anthropology	3-4
ANTHRO 448	Anthropology of Law	3
ENGL 142	Mystery and Crime Fiction	3
ENGL 174	Literature and Social Justice (*Law and Literature)	3
ENGL 548	Topic in Literature and Politics (*Guilt)	3
HISTORY 201	The Historian's Craft (*Shanghai Life)	3-4
HISTORY 500	Reading Seminar in History (*Chinese Law)	3
ILS 371	Interdisciplinary Studies in the Arts and Humanities (*Books by Crooks)	3
LEGAL ST/ HISTORY 477	History of Forensic Science	3
LEGAL ST/ HISTORY 510	Legal Pluralism	3
LITTRANS 236	Bascom Course-In Translation (*Extreme Stories )	3
LITTRANS 324	Topics in Scandinavian Literature (*Criminal Utopias)	3-4

### Law and Theory

Code	Title	Credits
<i>Theme 5: Law &amp; Theory</i>		
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
LEGAL ST 407	Jurisprudence and Social Issues	3
LEGAL ST/HISTORY 426	The History of Punishment	3-4
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
JOURN 563	Law of Mass Communication	4
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3
PHILOS 304	Topics in Philosophy: Humanities (Philos and Criminal Punishment)	3-4
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS/MED HIST/ AGRONOMY/C&E SOC 565	The Ethics of Modern Biotechnology	3

## METHODS AND RESEARCH

Two courses, one each from:

Code	Title	Credits
<b>Research Design</b>		
POLI SCI 170	Research Methods in Political Science	
POLI SCI/ JOURN/ URB R PL 373	Introduction to Survey Research	
PSYCH 225	Research Methods	
PUB AFFR 240	Evidence-Based Policy Making	
PUB AFFR 380	Analytic Tools for Public Policy	
SOC/ C&E SOC 357	Methods of Sociological Inquiry	
<b>Statistics</b>		
ECON 310	Statistics: Measurement in Economics	
GEN BUS 306	Business Analytics I	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

## CORE PERSPECTIVES

Please note: Though some courses may appear in more than one Theme Group and/or Core Perspective, a single course will only satisfy one (and only one) requirement. Courses will not be double counted.

Code	Title	Credits
<b>One Core Perspective course:</b>		
LEGAL ST/ HISTORY 261	American Legal History to 1860	
LEGAL ST/ HISTORY 262	American Legal History, 1860 to the Present	
LEGAL ST 400	Topics in Legal Studies and the Social Sciences	
LEGAL ST 407	Jurisprudence and Social Issues	
LEGAL ST 409	Human Rights in Law and Society	
LEGAL ST/ GEN&WS/ SOC 425	Crime, Gender and Justice	
LEGAL ST/ HISTORY 426	The History of Punishment	
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	
LEGAL ST/ CHICLA/ SOC 440	Ethnicity, Race, and Justice	
LEGAL ST/ CHICLA/ SOC 443	Immigration, Crime, and Enforcement	
LEGAL ST 450	Topics in Legal Studies and the Humanities	

LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models
LEGAL ST/ L I S 460	Surveillance, Privacy, and Police Powers
LEGAL ST/ HISTORY 477	History of Forensic Science
LEGAL ST/ HISTORY 510	Legal Pluralism
LEGAL ST 600	Special Topics in Legal Studies
LEGAL ST/SOC 641	Sociology of Law

**Electives**

Choose either a Senior Thesis...

LEGAL ST 681 & LEGAL ST 682	Senior Honors Thesis and Senior Honors Thesis
LEGAL ST 691 & LEGAL ST 692	Senior Thesis and Senior Thesis
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis

... or two additional Theme courses from above

**GLOBAL LEGAL SYSTEMS**

At least two courses in the major must have substantial content dealing with countries or cultures outside the United States, or with the international legal system. For this requirement, a course can count both for purposes of meeting the Distribution requirement above and the Global Legal Systems requirement. The following courses fulfill the Global Legal Systems requirement:

Code	Title	Credits
<b>Two Global Legal Systems courses:</b>		
ANTHRO 350	Political Anthropology	3-4
ANTHRO 448	Anthropology of Law	3
ENGL 174	Literature and Social Justice (*Law and Literature)	3
ENGL 548	Topic in Literature and Politics (*Guilt)	3
GEN&WS 424	Women's International Human Rights	3
GEOG 307	International Migration, Health, and Human Rights	3
HISTORY 201	The Historian's Craft (Topic: Shanghai Life and Crime)	3-4
HISTORY 500	Reading Seminar in History (Topic: Chinese Law)	3
INTL ST 601	Topics in Global Security (Topic: International Criminal Justice)	1-4
LEGAL ST/JEWISH/ RELIG ST 203	Jewish Law, Business, and Ethics	3
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Law, Sexuality and Society)	3-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Law, Justice and Climate Change)	3-4
LEGAL ST 409	Human Rights in Law and Society	3
LEGAL ST/SOC 425	Crime, Gender and Justice	3

LEGAL ST/HISTORY 426	The History of Punishment	3-4
LEGAL ST/ ENVIR ST/ HISTORY 430	Law and Environment: Historical and Contemporary Perspectives	3
LEGAL ST 450	Topics in Legal Studies and the Humanities (Topic: Criminal Justice and Popular Culture)	3-4
LEGAL ST 450	Topics in Legal Studies and the Humanities (Courts, Constitutionalism and Human Rights)	3-4
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
LEGAL ST/ HISTORY 476	Medieval Law and Society	3
LEGAL ST/ HISTORY 477	History of Forensic Science	3
LEGAL ST/HISTORY 510	Legal Pluralism	3
LEGAL ST 600	Special Topics in Legal Studies	1-3
LITTRANS 236	Bascom Course-In Translation (Topic: Extreme Stories)	3
LITTRANS 324/ SCAND ST 436	Topics in Scandinavian Literature (Topic: Criminal Utopias)	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 347	Terrorism	3
POLI SCI 349	Global Access to Justice	3
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 401	Selected Topics in Political Science (Topic: Global Access to Justice)	3-4
POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 635	Comparative Politics of Sport	3-4

**RACE AND JUSTICE STUDIES**

At least one course in the major must have substantial content dealing with race and justice studies. For this requirement, a course can count both for purposes of meeting the Distribution requirement above and the Race and Justice Studies requirement. The following courses fulfill the Race and Justice Studies requirement.

Code	Title	Credits
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3

AFROAMER/ GEN&WS 625	Gender, Race and the Civil Rights Movement	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY 403	Immigration and Assimilation in American History	3-4
LEGAL ST 400	Topics in Legal Studies and the Social Sciences (Topic: Criminal Injustice in America)	3-4
LEGAL ST 435	Civil Rights: Policing, Prisons, Voting, Housing, Employment	3
LEGAL ST/CHICLA/ SOC 440	Ethnicity, Race, and Justice	3-4
LEGAL ST/CHICLA/ SOC 443	Immigration, Crime, and Enforcement	3-4
PUB AFFR 520	Inequality, Race and Public Policy	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LEGAL ST and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in LEGAL ST and courses for the major, taken on campus

## HONORS IN THE MAJOR

Students may apply for admission to Honors in the Legal Studies Major in consultation with the Legal Studies undergraduate advisor(s).

### HONORS IN THE LEGAL STUDIES MAJOR: ENTRANCE REQUIREMENTS

- Declaration of the legal studies major
- A 3.300 University GPA
- A 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Completion of or current enrollment in, for Honors credit, at least one course accepted in the major

### HONORS IN THE LEGAL STUDIES MAJOR: REQUIREMENTS

To earn Honors in the Major in Legal Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all LEGAL ST courses, and all courses accepted in the major
- Complete the research design and statistics requirements for the regular major prior to enrollment in the Senior Honors Thesis (typically junior year)

- Complete 15 credits in the major, taken for Honors, earning a B or better grade in each course
- Complete a two-semester Senior Honors thesis in LEGAL ST 681 and LEGAL ST 682, for a total of 6 credits.

## FOOTNOTES

1

Upper-level in the major includes all LEGAL ST and major courses that are designated Intermediate or Advanced level.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Analyze and articulate their own arguments about how social, political, and cultural phenomena shape law and legal systems.
2. Analyze and articulate their own arguments about the social, political, and cultural impacts of law at the societal and individual levels.
3. Demonstrate knowledge about how legal ideas and ideologies have changed over time and have shaped law and legal systems.
4. Demonstrate their abilities to find, interpret, and utilize resources relevant to law and society.
5. Demonstrate their abilities to analyze information, to write clearly and persuasively, and to construct original arguments.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
Communication A (complete during the first year)	3	Ethnic Studies (complete within first 60 credits)	3
Quantitative Reasoning A (complete during the first year)	3	Humanities Breadth	3
Foreign Language (if needed)	3-4	Biological Science Breadth	3
LEGAL ST/SOC 131 or 217	3-4	Foreign Language (if needed for the B.A.)	3-4
First-Year Seminar (optional)	1	I/A COMP SCI, MATH, or STAT (if required for the BS)	3-4
	<b>13</b>		<b>15</b>

### Second Year

Fall	Credits	Spring	Credits
Legal Studies Theme Course	3	Legal Studies Theme Course	3
Literature Breadth	3	Communication B	3-4
Statistics (also satisfies Quantitative Reasoning B)	3-4	Research Design requirement	3-4
Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
Legal Studies Theme Course	4	Legal Studies Theme Course	4
Legal Studies Theme Course (non US focus)	3	Legal Studies Theme Course (non US focus)	3
Literature Breadth	3	Humanities Breadth	3
Elective	3	Elective	3
Science Breadth	3	Elective	3
	<b>16</b>		<b>16</b>

### Fourth Year

Fall	Credits	Spring	Credits
Additional Theme Course or First Semester Senior Thesis	3	Additional Theme Course or Second Semester Senior Thesis	3
Core Perspectives Course	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING APPOINTMENTS: PLEASE SCHEDULE VIA STARFISH ([HTTPS://ADVISING.WISC.EDU/FACSTAFF/STARFISH/STARFISH-STUDENT-RESOURCES/](https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/))

1. Log in to your MyUW (<http://my.wisc.edu/>)
2. Open the **Starfish** app (if you do not see it, you can begin by searching for it in MyUW and adding it to your dashboard)
3. Within the Starfish app, select Martine Delannay and find an available date and time

More help on using Starfish can be found here: <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>.

If you are not a UW student, please email us at [cjcp@ssc.wisc.edu](mailto:cjcp@ssc.wisc.edu) to schedule a meeting.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## CHEMISTRY

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in

research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major provides students with the critical thinking and problem-solving skills necessary to be successful in a wide variety of careers in the chemical industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, food, etc.), as well as environmental, pharmaceutical, and other health-related sciences. Students are also well-prepared for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are often able to obtain funding for their graduate work through teaching or research assistantships and fellowships. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. Chemistry majors have also been successful in a variety of professional programs where they have studied medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## DEGREES/MAJORS/CERTIFICATES

- Chemistry, B.A. (p. 577)
- Chemistry, B.S. (p. 585)

## PEOPLE

### PROFESSORS

Berry, John  
 Bertram, Timothy  
 Blackwell, Helen (associate chair for graduate program)  
 Boros, Eszter  
 Boydston, Andrew  
 Brunold, Thomas  
 Burstyn, Judith  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Ediger, Mark  
 Fredrickson, Daniel (associate chair for research)  
 Garand, Etienne  
 Gellman, Samuel  
 Goldsmith, Randall  
 Hamers, Robert  
 Hermans, Ivo

Huang, Xuhui  
 Jin, Song  
 Landis, Clark (chair)  
 McMahon, Robert  
 Nathanson, Gilbert  
 Schmidt, Jordan (associate chair for undergraduate program)  
 Schomaker, Jennifer  
 Schwartz, David  
 Smith, Lloyd  
 Stahl, Shannon  
 Weix, Daniel  
 Widicus Weaver, Susanna  
 Yethiraj, Arun  
 Yoon, Tehshik  
 Zanni, Martin

### ASSISTANT PROFESSORS

Buller, Andrew  
 Martell, Jeffrey  
 Pazicni, Samuel  
 Soley, Micheline  
 Stowe, Ryan  
 Todd, Zoe  
 Wang, Tina  
 Wickens, Zachary  
 Yang, Yang

### AFFILIATED PROFESSORS

Attie, Alan (Professor of Biochemistry)  
 Engle, Jonathan (Associate Professor of Medical Physics)  
 Feng, Dawei (Assistant Professor of Materials Science and Engineering)  
 Forest, Katrina (Professor of Bacteriology)  
 Ge, Ying (Professor of Cell and Regenerative Biology)  
 Gilbert, Pupa (Professor of Physics)  
 Golden, Jennifer (Associate Professor of Pharmacy)  
 Gong, Sarah (Professor of Biomedical Engineering)  
 Gopalan, Padma (Professor of Materials Science and Engineering)  
 Hoskins, Aaron (Associate Professor of Biochemistry)  
 Li, Lingjun (Professor of Pharmacy)  
 Lynn, David (Professor of Chemical and Biological Engineering)  
 Mecozzi, Sandro (Professor of Pharmacy)  
 Ping, Yuan (Associate Professor of Materials Science & Engineering)  
 Remucal, Christy (Associate Professor of Civil & Environmental Engineering)  
 Rienstra, Chad (Professor of Biochemistry)  
 Schreier, Marcel (Assistant Professor of Chemical and Biological Engineering)  
 Tang, Weiping (Professor of Pharmacy)  
 Van Lehn, Reid (Associate Professor of Chemical and Biological Engineering)  
 Weeks, Amy (Assistant Professor of Biochemistry)  
 Yesilkoy, Filiz (Assistant Professor of Biomedical Engineering)  
 Yu, Lian (Professor of Pharmacy)

### INSTRUCTIONAL STAFF

Anzovino, Mary Beth (Associate Director of Organic Chemistry Labs)  
 Bain, Rachel (Senior Instructional Technology Specialist)  
 Block, Stephen (Associate Director General Chemistry Labs)  
 Bowman, Matthew (Senior Lecturer)  
 Buchberger, Amanda (Associate Director Analytical Labs)  
 Doolittle, Pamela (Distinguished Analytical Chemistry Lab Director)



Esselman, Brian (Distinguished Associate Director Organic Chemistry Labs)  
 Gustin, Léa (Associate Director General Chemistry Labs)  
 Hill, Nicholas (Distinguished Director Organic Chemistry Labs)  
 Hooker, Paul (Senior Lecturer)  
 Lamont, Liana (General Chemistry Instructional Coordinator)  
 Maynard, James (Teaching, Learning, & Technology Specialist)  
 McClain, Robert (Analytical Chemistry Lab Director)  
 Schueneman, Susan (Senior Teaching Specialist)  
 Trate, Jaclyn (Instructional Innovator)  
 Weaver, Jeremy (Instructor & Curriculum Coordinator)  
 Wendt, Mark (Physical Chemistry Lab Director)  
 Wilkinson, Chad (Distinguished General & Inorganic Chem Lab Director)  
 Zelewski, Linda (Senior Lecturer)  
 Zhou, Jia (Undergraduate Instructor & Resource Dev Specialist)

## CHEMISTRY LEARNING CENTER

Brown, Rebecca (Instructor)  
 Dang, Alice (Instructor)  
 Hughes, Christopher (Instructor)  
 Jetzer, Kelly (Instructor)  
 Killian, Michelle (Instructor)  
 Lee, Agnes (Instructor)  
 Ramey, Shea (Instructor)  
 Reitz, Tracey (Director)  
 Saloni, Julia (Instructor)  
 Toland, David (Instructor)  
 Zavala, Yashira (Instructor)

## STUDENT SERVICES AND ADVISING

Barta, Cheri (Director of Undergraduate Research)  
 Hamers, Jeanne (Undergraduate Chemistry Director)  
 McCullough, Katie (Academic Advising Manager)

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend instructor and TA office hours or the Help Desk for the course.

The Chemistry Learning Center (CLC) (<https://clc.chem.wisc.edu/>) supports students in introductory chemistry courses (CHEM 103, CHEM 104, and CHEM 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu/>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc/>). Alpha

Chi Sigma (AXE) (<http://alphachisigmauw.com/>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of private tutors (<https://chem.wisc.edu/academic-support/>) available for hire.

## SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2022, the department awarded more than 40 scholarships totaling over \$180,000.

Any student who is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the scholarships. Awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://chem.wisc.edu/scholarships-fellowships-awards/>) and how to apply.

## CHEMISTRY, B.A.

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major provides students with the critical thinking and problem-solving skills necessary to be successful in a wide variety of careers in the chemical industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, food, etc.), as well as environmental, pharmaceutical, and other health-related sciences. Students are also well-prepared for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are often able to obtain funding for their graduate work through teaching or research assistantships and fellowships. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. Chemistry majors have also been successful in a variety of professional programs where they have studied medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## HOW TO GET IN

Students may declare the chemistry major after they have completed General Chemistry (CHEM 104, CHEM 109, or CHEM 116). Transfer students may declare in their first semester at UW-Madison, if they have transfer credit for one of these courses. Students should schedule an appointment with the undergraduate chemistry advisor to declare and develop a course plan toward graduation. To better inform their decision, undecided students who are exploring chemistry along with other majors are encouraged to take an additional chemistry course or two beyond General Chemistry before declaring. Any student interested in chemistry is welcome to schedule an appointment (<https://www.chem.wisc.edu/content/undergraduate-advising/>) with the advisor to further explore the major.

Students are advised to declare the major no later than the end of their second year. There are many advantages to declaring the chemistry major early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry majors. Students who have declared the major become a part of our chemistry community, enabling them to better connect with faculty, staff, and other chemistry majors.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

<b>Foreign Language</b>	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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<b>L&amp;S Breadth</b>	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
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<b>Depth of Intermediate/Advanced work</b>	Complete at least 60 credits at the intermediate or advanced level.
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<b>Major</b>	Declare and complete at least one major.
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<b>Total Credits</b>	Complete at least 120 credits.
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<b>UW-Madison Experience</b>	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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#### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

#### REQUIREMENTS FOR THE MAJOR MATH & PHYSICS

Code	Title	Credits
<b>Mathematics (1 course)</b>		<b>4-5</b>
MATH 222	Calculus and Analytic Geometry 2	
MATH 276	Topics in Calculus II	

**Physics 10***First Introductory Course (1 course)*

PHYSICS 207 General Physics

PHYSICS 201 General Physics

PHYSICS 247 A Modern Introduction to Physics

*Second Introductory Course (1 course)*

PHYSICS 208 General Physics

PHYSICS 202 General Physics

PHYSICS 248 A Modern Introduction to Physics

**Total Credits 14-15****CHEMISTRY CORE COURSES****Code Title Credits****General Chemistry (1 course) 5**

CHEM 104 General Chemistry II

CHEM 109 Advanced General Chemistry

CHEM 115 Chemical Principles I<sup>1</sup>**Analytical Chemistry (1 course) 4-5**

CHEM 329 Fundamentals of Analytical Science

CHEM 116 Chemical Principles II

CHEM 327 Fundamentals of Analytical Science

**Inorganic Chemistry (1 course) 4**

CHEM 311 Chemistry Across the Periodic Table

**Organic Chemistry (3 courses)<sup>2</sup> 8**

CHEM 343 Organic Chemistry I

CHEM 345 Organic Chemistry II

CHEM 344 Introductory Organic Chemistry Laboratory

**Physical Chemistry 8-9****Part 1 (1 course)**

CHEM 561 Physical Chemistry

CHEM 565 Biophysical Chemistry

CBE 310 Chemical Process Thermodynamics

M S &amp; E 330 Thermodynamics of Materials

**Part 2 (1 course)**

CHEM 562 Physical Chemistry

**Part 3 (2 courses)**

CHEM 563 Physical Chemistry Laboratory I

CHEM 564 Physical Chemistry Laboratory II

**Total Credits 29-31****ADVANCED CHEMISTRY AND LABORATORY****Code Title Credits****Advanced Non-laboratory Coursework 5**CHEM 116 Chemical Principles II (1 credit counts towards requirements)<sup>3</sup>CHEM/  
M S & E 421 Polymeric Materials

CHEM/CBE 505 Aspects of Industrial Chemistry and Business Fundamentals

CHEM 509 Senior Seminar

CHEM 511 Advanced Inorganic Chemistry

CHEM 524 Chemical Instrumentation (2 credits count towards requirement)<sup>4</sup>

CHEM 547 Advanced Organic Chemistry

CHEM 555 Study Abroad in Advanced Chemistry

CHEM 565 Biophysical Chemistry (1 credit counts towards requirement)<sup>3</sup>

CHEM 575 Advanced Topics in Chemistry

CHEM 605 Spectrochemical Measurements

CHEM 629 Atmospheric Chemical Mechanisms

CHEM 654 Materials Chemistry of Polymers

BIOCHEM 501 Introduction to Biochemistry  
or BIOCHEM 507 General Biochemistry I

BIOCHEM 508 General Biochemistry II

BIOCHEM/  
NUTR SCI 510 Nutritional Biochemistry and Metabolism

BIOCHEM 625 Mechanisms of Action of Vitamins and Minerals

CBE 440 Chemical Engineering Materials

CBE 540 Polymer Science and Technology

CBE 547 Introduction to Colloid and Interface Science

**Additional Laboratory Work 3**

CHEM 346 Intermediate Organic Chemistry Laboratory

CHEM 512 Advanced Synthesis and Laboratory Techniques

CHEM 524 Chemical Instrumentation (1 credit counts towards requirement)<sup>4</sup>

CHEM 681 &amp; CHEM 682 Senior Honors Thesis and Senior Honors Thesis

CHEM 691 &amp; CHEM 692 Senior Thesis and Senior Thesis

CHEM 699 Directed Study

BIOCHEM 681 &amp; BIOCHEM 682 Senior Honors Thesis and Senior Honors Thesis

BIOCHEM 691 &amp; BIOCHEM 692 Senior Thesis and Senior Thesis

BIOCHEM 699 Special Problems

CBE 599 Special Problems

**Total Credits 8****RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all CHEM and major courses
- 2.000 GPA in at least 15 upper-level credits in the major in residence. Upper-level work includes CHEM 346, CHEM/M S & E 421, CHEM/CBE 505, CHEM 509, CHEM 511, CHEM 512, CHEM 524, CHEM 547, CHEM 555, CHEM 561, CHEM 562, CHEM 563, CHEM 564, CHEM 565, CHEM 575, CHEM 605, CHEM 629, CHEM 654, CHEM 681, CHEM 682, CHEM 691, CHEM 692, CHEM 699, BIOCHEM 501, BIOCHEM 507, BIOCHEM 508, BIOCHEM/NUTR SCI 510, BIOCHEM 625, BIOCHEM 681, BIOCHEM 682,

BIOCHEM 691, CHEM 692, BIOCHEM 699, CBE 310, CBE 440, CBE 540, CBE 547, CBE 599, and M S & E 330.

- 15 credits in CHEM, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Chemistry Major in consultation with the chemistry major advisor (<https://www.chem.wisc.edu/content/undergraduate-advising/>). To be admitted to the Honors Program in Chemistry, students must have declared a major in chemistry and achieved a 3.200 overall GPA. They must also have achieved a 3.200 GPA in all CHEM courses taken and courses accepted for the major.

## HONORS IN THE CHEMISTRY MAJOR REQUIREMENTS

To earn Honors in the Major in Chemistry, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all CHEM courses and all major courses
- Complete an additional 3 credits, for a total of 8 credits, of advanced non-laboratory work. This requirement is met by the same credits and courses that are accepted for "Advanced Non-laboratory Work" in the regular major.
- Complete a two-semester Senior Honors Thesis in CHEM 681 Senior Honors Thesis and CHEM 682 Senior Honors Thesis, for a total of 6 credits.

## FOOTNOTES

1

Enrollment in CHEM 115 and CHEM 116 is by invitation only. Entering first-year students are invited to apply. Candidates are selected based on their high school record, placement test scores, and application responses.

2

CHEM 343 must be taken first, followed by CHEM 345. CHEM 344 may be taken concurrently with or after CHEM 345.

3

One credit from each of CHEM 116 and CHEM 565 count toward the required 5 credits of Advanced Non-laboratory Coursework.

4

Only 2 of the 3 credits from CHEM 524 count towards Advanced Non-laboratory Coursework. The remaining 1 credit counts towards the Additional Laboratory Work requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify, formulate and solve integrative problems using appropriate information and approaches.
2. Demonstrate an understanding of basic chemical transformations, including the ability to predict chemical reactivity and properties.
3. Recognize the relationship between structure, bonding and the properties of molecules and materials.
4. Model chemical systems and experimental data using relevant quantitative, mathematical and computational methods.
5. Design, conduct and analyze experiments safely and successfully.
6. Locate, evaluate and use information in the chemical literature.
7. Communicate chemical knowledge effectively through written reports, oral presentations and visual aids.
8. Work collaboratively with others, both chemists and those from other disciplines, to solve problems and create new knowledge.
9. Recognize how chemistry relates to contemporary issues in our society.
10. Understand professional and ethical responsibility.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 or 103 <sup>1</sup>	4-5	300-level Chemistry course OR	3-5
MATH 221	5	CHEM 104 (if needed) <sup>2</sup>	
Communications A (complete during first year)	3	MATH 222	4
Foreign Language (if required)	4	Ethnic Studies	3

	L&S Breadth		3	
	<b>16</b>		<b>15</b>	
<b>Second Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>		<b>Credits</b>
CHEM 343 <sup>3</sup>		3 CHEM 345		3
PHYSICS 207		5 CHEM 344		2
L&S Breadth		3 PHYSICS 208		5
Communications B (consult with advisor about timing) <sup>4</sup>		3-4 Research (optional) <sup>5</sup>		1-3
		L&S Breadth		3
	<b>15</b>			<b>15</b>
<b>Third Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>		<b>Credits</b>
CHEM 329 <sup>6</sup>		4 Physical Chemistry Part I <sup>7</sup>		3-4
MATH 234 (recommended, but not required)		4 CHEM 311		4
Research (optional) <sup>5</sup>		1-3 Advanced Non- laboratory Coursework <sup>8</sup>		3
L&S Breadth		3 Research (optional) <sup>5</sup>		1-3
INTER-LS 210 (optional)		1 L&S Breadth		3
	<b>14</b>			<b>15</b>
<b>Fourth Year</b>				
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>		<b>Credits</b>
CHEM 562		3 CHEM 564		1
CHEM 563		1 Research or other Additional Lab Work <sup>10</sup>		1-3
Research or other Additional Lab Work <sup>9</sup>		1-3 Advanced Non- laboratory Coursework (if needed)		3
Advanced Non- laboratory Coursework		3 L&S Breadth		3
L&S Breadth		3 L&S Breadth		3
L&S Breadth		3 Elective <sup>11</sup>		3
	<b>15</b>			<b>15</b>

**Total Credits 120****1**

CHEM 103 General Chemistry I/CHEM 104 General Chemistry II is a two-semester sequence in General Chemistry. Students with a strong high school chemistry background (usually two years) and placement into at least first semester calculus are eligible for CHEM 109 Advanced General Chemistry. CHEM 109 is an advanced, fast-paced option that covers General Chemistry in one semester. CHEM 109 is offered only in the fall semesters and an honors level section is available. An additional option is the CHEM 115 Chemical Principles I/CHEM 116 Chemical Principles II sequence, which is a small honors sequence for exceptionally well-prepared students. Enrollment in this sequence is by invitation only, and the two courses cover both general and analytical chemistry.

**2**

Students who took CHEM 109 in their first semester will not need CHEM 104. Instead, they may proceed to the next level of chemistry courses sooner by taking CHEM 311 Chemistry Across the Periodic Table or CHEM 329 Fundamentals of Analytical Science or CHEM 343 Organic Chemistry I in the second semester of their first year. In this case, some subsequent chemistry courses may also be taken sooner than shown in this plan.

**3**

Students must declare a major by the time they reach 86 credits. Students interested in chemistry may declare the major after completing general chemistry (CHEM 104, CHEM 109, or CHEM 116).

**4**

Communications B can be satisfied later through a chemistry course, CHEM 346 Intermediate Organic Chemistry Laboratory, if taken for 2 credits. CHEM 346 will also count towards additional lab work needed for the chemistry major.

**5**

Research can be taken for credit by enrolling in CHEM 299 Directed Study (for students with less than 54 earned credits) or CHEM 699 Directed Study (for students with 54 or more earned credits). CHEM 299 does not satisfy additional lab credits required for the major, while CHEM 699 does. Alternatively, research may be conducted as a volunteer or for pay. Students must search for and be accepted into a research group before beginning research.

**6**

According to L&S policy, students must complete at least 60 credits at the intermediate or advanced level.

**7**

Options include CHEM 561 Physical Chemistry, CHEM 565 Biophysical Chemistry, and CBE 310 Chemical Process Thermodynamics (only for students also majoring in Chemical & Biological Engineering).

**8**

Five advanced non-laboratory credits are required for the major. Please see the Requirements tab in the Guide for a list of courses that count towards this requirement.

**9**

Three credits of additional lab work are required for the major. These credits can be satisfied by research (CHEM 699, for example) or by courses. Please see the Requirements tab in the Guide for a complete list of options. CHEM 346 is one option, and when taken for 2 credits also satisfies Comm-B. CHEM 346 is ONLY offered in FALL semester, with most students taking it in their fourth year. Students not planning to take CHEM 346 should plan to take their Comm-B earlier through one of their other required breadth courses.

**10**

CHEM 524 Chemical Instrumentation and CHEM 512 Advanced Synthesis and Laboratory Techniques are options that are only offered in the spring semesters. CHEM 524 (3 credits) satisfies 1 additional lab work credit and 2 advanced non-laboratory credits.

11

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree requirements as well as Residence and Quality of Work requirements for the major.

## ADVISING AND CAREERS

### ADVISING

The chemistry advisor provides advising for chemistry majors and prospective chemistry majors. Both appointments and drop-in hours are available. See Undergraduate Advising (<https://www.chem.wisc.edu/undergraduate-advising/>) on the Department of Chemistry website for more details.

The Chemistry website also provides information about introductory chemistry courses (<https://chem.wisc.edu/introductory-chemistry-courses-and-placement/>) and placement for continuing and new undergraduate students (<https://chem.wisc.edu/new-undergraduate-students/>) interested in taking a chemistry course. Students with enrollment and course access questions should visit the enrollment inquiries (<https://chem.wisc.edu/enrollment-inquiries/>) page. If further assistance is needed, students may visit the Undergraduate Chemistry Office (room 1351 Chemistry) during normal business hours, email ([undergrad@chem.wisc.edu](mailto:undergrad@chem.wisc.edu)), or call 608-263-2424.

Chemistry majors interested in getting involved in research should explore the undergraduate research (<https://undergradresearch.chem.wisc.edu/>) pages on the chemistry website. Students needing additional information may contact the undergraduate research director by email ([chem\\_ugr\\_research@chem.wisc.edu](mailto:chem_ugr_research@chem.wisc.edu)).

### COURSE SELECTION AND SEQUENCING

The Requirements (<https://guide.wisc.edu/undergraduate/letters-science/chemistry/chemistry-bs/#requirementstext>) page provides the minimum requirements necessary for completing the chemistry major. This section provides additional advisory information about course selection and sequencing.

- In addition to MATH 222 Calculus and Analytic Geometry 2, it is highly recommended that majors also take MATH 234 Calculus--Functions of Several Variables and MATH 320 Linear Algebra and Differential Equations. The extra math is especially helpful to students when they take the required physical chemistry courses.
- PHYSICS 207 / PHYSICS 208 is the preferred physics sequence for most chemistry majors, while PHYSICS 201 / PHYSICS 202 is recommended for engineering students. PHYSICS 247 / PHYSICS 248 is intended for students considering a major in physics, astronomy-physics, or AMEP (applied mathematics, engineering, and physics).
- Chemistry majors are strongly encouraged to take either CHEM 329 or CHEM 116 (as opposed to CHEM 327) to satisfy their analytical chemistry requirement, because research is an integral part of these two courses. Both CHEM 329 and CHEM 116 come with honors credit, but students do not need to be part of an honors program to enroll.
- Most chemistry majors take CHEM 561 or CHEM 565 for Physical Chemistry Part I. Students also majoring in chemical and biological engineering take CBE 310 instead. M S & E 330 is recommended only for students also majoring in materials science and engineering.

- It is recommended that CHEM 563 be taken after Physical Chemistry Part I and that CHEM 564 be taken after CHEM 562. Especially strong students needing to complete physical chemistry in two semesters may take CHEM 563 concurrently with CHEM 561 (or CHEM 565) and CHEM 564 concurrently with CHEM 562.

### CAREER SERVICES

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

Students are encouraged to begin their career planning early and to take advantage of the numerous resources offered by SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science (see below). Information about careers, internships, resumes, cover letters, job search strategies, interviewing, and graduate school preparation are all available through SuccessWorks. Students can also register for Handshake (<https://wisc.joinhandshake.com/login/>), an online resource for students to make connections with potential employers. Current career, research, and internship opportunities of specific interest to chemistry students can be found on the Career Services (<https://chem.wisc.edu/career-services/>) pages of the chemistry website.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Berry, John  
 Bertram, Timothy  
 Blackwell, Helen (associate chair for graduate program)  
 Boros, Eszter  
 Boydston, Andrew  
 Brunold, Thomas  
 Burstyn, Judith  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Ediger, Mark  
 Fredrickson, Daniel (associate chair for research)  
 Garand, Etienne  
 Gellman, Samuel  
 Goldsmith, Randall  
 Hamers, Robert  
 Hermans, Ive  
 Huang, Xuhui  
 Jin, Song  
 Landis, Clark (chair)  
 McMahan, Robert  
 Nathanson, Gilbert  
 Schmidt, Jordan (associate chair for undergraduate program)  
 Schomaker, Jennifer  
 Schwartz, David  
 Smith, Lloyd  
 Stahl, Shannon  
 Weix, Daniel  
 Widicus Weaver, Susanna  
 Yethiraj, Arun  
 Yoon, Tehshik  
 Zanni, Martin

### ASSISTANT PROFESSORS

Buller, Andrew  
 Martell, Jeffrey  
 Pazicni, Samuel  
 Soley, Micheline  
 Stowe, Ryan  
 Todd, Zoe  
 Wang, Tina  
 Wickens, Zachary  
 Yang, Yang

### AFFILIATED PROFESSORS

Attie, Alan (Professor of Biochemistry)  
 Engle, Jonathan (Associate Professor of Medical Physics)  
 Feng, Dawei (Assistant Professor of Materials Science and Engineering)  
 Forest, Katrina (Professor of Bacteriology)  
 Ge, Ying (Professor of Cell and Regenerative Biology)  
 Gilbert, Pupa (Professor of Physics)

Golden, Jennifer (Associate Professor of Pharmacy)  
 Gong, Sarah (Professor of Biomedical Engineering)  
 Gopalan, Padma (Professor of Materials Science and Engineering)  
 Hoskins, Aaron (Associate Professor of Biochemistry)  
 Li, Lingjun (Professor of Pharmacy)  
 Lynn, David (Professor of Chemical and Biological Engineering)  
 Mecozzi, Sandro (Professor of Pharmacy)  
 Ping, Yuan (Associate Professor of Materials Science & Engineering)  
 Remucal, Christy (Associate Professor of Civil & Environmental Engineering)  
 Rienstra, Chad (Professor of Biochemistry)  
 Schreier, Marcel (Assistant Professor of Chemical and Biological Engineering)  
 Tang, Weiping (Professor of Pharmacy)  
 Van Lehn, Reid (Associate Professor of Chemical and Biological Engineering)  
 Weeks, Amy (Assistant Professor of Biochemistry)  
 Yesilkoy, Filiz (Assistant Professor of Biomedical Engineering)  
 Yu, Lian (Professor of Pharmacy)

### INSTRUCTIONAL STAFF

Anzovino, Mary Beth (Associate Director of Organic Chemistry Labs)  
 Bain, Rachel (Senior Instructional Technology Specialist)  
 Block, Stephen (Associate Director General Chemistry Labs)  
 Bowman, Matthew (Senior Lecturer)  
 Buchberger, Amanda (Associate Director Analytical Labs)  
 Doolittle, Pamela (Distinguished Analytical Chemistry Lab Director)  
 Esselman, Brian (Distinguished Associate Director Organic Chemistry Labs)  
 Gustin, Léa (Associate Director General Chemistry Labs)  
 Hill, Nicholas (Distinguished Director Organic Chemistry Labs)  
 Hooker, Paul (Senior Lecturer)  
 Lamont, Liana (General Chemistry Instructional Coordinator)  
 Maynard, James (Teaching, Learning, & Technology Specialist)  
 McClain, Robert (Analytical Chemistry Lab Director)  
 Schueneman, Susan (Senior Teaching Specialist)  
 Trate, Jaclyn (Instructional Innovator)  
 Weaver, Jeremy (Instructor & Curriculum Coordinator)  
 Wendt, Mark (Physical Chemistry Lab Director)  
 Wilkinson, Chad (Distinguished General & Inorganic Chem Lab Director)  
 Zelewski, Linda (Senior Lecturer)  
 Zhou, Jia (Undergraduate Instructor & Resource Dev Specialist)

### CHEMISTRY LEARNING CENTER

Brown, Rebecca (Instructor)  
 Dang, Allice (Instructor)  
 Hughes, Christopher (Instructor)  
 Jetzer, Kelly (Instructor)  
 Killian, Michelle (Instructor)  
 Lee, Agnes (Instructor)  
 Ramey, Shea (Instructor)  
 Reitz, Tracey (Director)  
 Saloni, Julia (Instructor)  
 Toland, David (Instructor)  
 Zavala, Yashira (Instructor)

### STUDENT SERVICES AND ADVISING

Barta, Cheri (Director of Undergraduate Research)  
 Hamers, Jeanne (Undergraduate Chemistry Director)  
 McCullough, Katie (Academic Advising Manager)

## WISCONSIN EXPERIENCE

### RESEARCH

There are many research opportunities for undergraduates in the Department of Chemistry. When conducting research, students will have the opportunity to work alongside world-class faculty, staff, and graduate students to gain hands-on research experiences that will supplement their liberal arts education and prepare students for future careers. We have researchers involved in all the core areas of chemistry: analytical, chemical biology, chemical education, inorganic, materials, organic, physical, and theoretical. Many of our researchers conduct research across disciplines, including medicine, pharmacy, biology, engineering, energy, environmental sciences, and physics. Although preference is given to chemistry majors in good academic standing, any student interested in conducting chemistry research can seek out opportunities in our department. Students have the option of volunteering in a research lab or conducting research for course credit by enrolling in CHEM 299 Directed Study, CHEM 699 Directed Study, CHEM 681/CHEM 682 Senior Honors Thesis, or CHEM 691/CHEM 692 Senior Thesis. Students can also gain research experiences through the elective courses CHEM 260 Entering Research I, CHEM 261 Entering Research II, and CHEM 346 Intermediate Organic Chemistry Laboratory, as well as the required course CHEM 329 Fundamentals of Analytical Science. In some cases, experienced undergraduates may be paid to conduct research. For additional information about undergraduate research, including how to get involved, please visit the department's Undergraduate Research (<https://undergradresearch.chem.wisc.edu/>) page.

### STUDENT ORGANIZATIONS

A number of student organizations are available for students interested in the chemical sciences.

- Alpha Chi Sigma (AXE) (<http://alphachisigmauw.com/>) is a national, co-ed, professional chemistry organization that was founded at UW-Madison in 1902. The UW-Madison chapter has an active membership of about 40 students, both graduate and undergraduate. The organization also has two houses, at 619 and 621 North Lake Street, which house nearly half of the members. The houses are the primary locations for events like tutoring, chapter dinners, meetings, and social events.
- The UW-Madison student chapter of NOBCChE (<https://www.nobcche.org/>) (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) seeks to encourage students of color to pursue graduate and professional degrees in chemistry, chemical engineering, and other chemistry-related fields. Members participate in professional development through national conference presentations, networking, and community service activities.
- SACNAS (<https://win.wisc.edu/organization/sacnas/>) (the Society for the Advancement of Hispanics/Chicanos and Native Americans) is a society of scientists dedicated to fostering the success of Hispanic/Chicano and Native American scientists—from college students to professionals—to attain advanced degrees, careers, and positions of leadership in science.

## CERTIFICATION/LICENSURE

### ACS CERTIFIED DEGREE

The UW-Madison Department of Chemistry is approved by the American Chemical Society (ACS) to certify the degrees of graduating students who have completed the curriculum and professional training recommended by ACS for chemistry bachelor's degree graduates. Certification indicates that the student has completed rigorous course work that provides them with the skills needed for a successful career in science.

Students graduating with the chemistry major from UW-Madison already meet most of the requirements for ACS certification. They can obtain the certification by electing to take specific courses that satisfy both the requirements of the major and the ACS guidelines. Additional requirements for certification are:

- A course in biochemistry, satisfied by BIOCHEM 501 Introduction to Biochemistry or BIOCHEM 507 General Biochemistry I (3 credits)
- At least 400 total laboratory hours, which can be satisfied by the combination of all the required core laboratory courses (in organic, inorganic, analytical and physical chemistry) plus two to three laboratory credits from any combination of CHEM 346 Intermediate Organic Chemistry Laboratory, CHEM 512 Advanced Synthesis and Laboratory Techniques, CHEM 524 Chemical Instrumentation (3 credit course, but only one credit is a lab credit), CHEM 681/CHEM 682 Senior Honors Thesis, or CHEM 691/ CHEM 692 Senior Thesis. The exact number of lab credits required from these courses depends on how the student has satisfied the core lab requirements. Please consult the Chemistry Major Advisor (<https://www.chem.wisc.edu/content/undergraduate-advising/>) for more details.

The biochemistry course satisfies three of the five credits of advanced non-laboratory work required for the chemistry major, while two credits from CHEM 524 also count towards the advanced work. CHEM 346, CHEM 512, 1 credit of CHEM 524, CHEM 681/CHEM 682, and CHEM 691/CHEM 692 all count towards the three additional lab credits required for the major.

Note that neither CHEM 299 Directed Study nor CHEM 699 Directed Study can be used to satisfy the lab hours needed for ACS certification. However, CHEM 699 can be used to satisfy additional lab credits needed for the chemistry major.

### PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

**The requirements of this program meet Certification/Licensure in the following states:**

Wisconsin



**The requirements of this program do not meet Certification/Licensure in the following states: The requirements of this program have not been determined if they meet Certification/Licensure in the following states:**

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend instructor and TA office hours or the Help Desk for the course.

The Chemistry Learning Center (CLC) (<https://clc.chem.wisc.edu/>) supports students in introductory chemistry courses (CHEM 103, CHEM 104, and CHEM 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu/>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc/>). Alpha Chi Sigma (AXE) (<http://alphachisigmauw.com/>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of private tutors (<https://chem.wisc.edu/academic-support/>) available for hire.

### SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2022, the department awarded more than 40 scholarships totaling over \$180,000.

Any student who is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the scholarships. Awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://chem.wisc.edu/scholarships-fellowships-awards/>) and how to apply.

## CHEMISTRY, B.S.

The mission of the Department of Chemistry is to conduct world-class, groundbreaking research in the chemical sciences while offering the highest quality of education to undergraduate students, graduate students, and postdoctoral associates. The department's leadership in research includes the traditional areas of physical, analytical, inorganic, and organic chemistry, and has rapidly evolved to encompass environmental chemistry, chemical biology, biophysical chemistry, soft and hard materials chemistry, and nanotechnology. The Department of Chemistry prides itself on its highly interactive, diverse, and collegial scientific environment. Our emphasis on collaboration connects us to colleagues across campus, around the country, and throughout the world.

The undergraduate chemistry major leads to a bachelor of science or a bachelor of arts degree awarded by the College of Letters & Science. The curriculum provides excellent preparation in chemistry, along with a wide breadth of liberal arts coursework. At the same time, the program provides significant opportunities for students to participate in scientific inquiry, within both laboratory courses and research laboratories. Students from other colleges within the university may pursue the chemistry major as an additional major. When pursuing a chemistry major, the undergraduate student must meet university general education requirements and breadth requirements of their own college, along with the specific requirements for the chemistry major.

The chemistry major provides students with the critical thinking and problem-solving skills necessary to be successful in a wide variety of careers in the chemical industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, food, etc.), as well as environmental, pharmaceutical, and other health-related sciences. Students are also well-prepared for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are often able to obtain funding for their graduate work through teaching or research assistantships and fellowships. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. Chemistry majors have also been successful in a variety of professional programs where they have studied medicine, pharmacy, dentistry, veterinary medicine, business, or law.

## HOW TO GET IN

Students may declare the chemistry major after they have completed General Chemistry (CHEM 104, CHEM 109, or CHEM 116). Transfer students may declare in their first semester at UW-Madison, if they have transfer credit for one of these courses. Students should schedule an appointment with the undergraduate chemistry advisor to declare and develop a course plan toward graduation. To better inform their decision, undecided students who are exploring chemistry along with other majors are encouraged to take an additional chemistry course or two beyond General Chemistry before declaring. Any student interested in chemistry is welcome to schedule an appointment (<https://www.chem.wisc.edu/content/undergraduate-advising/>) with the advisor to further explore the major.

Students are advised to declare the major no later than the end of their second year. There are many advantages to declaring the chemistry major early, including access to chemistry advising, access to scholarships only available to chemistry majors, and access to announcements for chemistry

majors. Students who have declared the major become a part of our chemistry community, enabling them to better connect with faculty, staff, and other chemistry majors.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
<b>Depth of Intermediate/Advanced Coursework</b>	Complete at least 60 credits at the Intermediate or Advanced level.
<b>Major</b>	Declare and complete at least one major.
<b>Total Credits</b>	Complete at least 120 credits.
<b>UW–Madison Experience</b>	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATH & PHYSICS

Code	Title	Credits
<b>Mathematics (1 course)</b>		<b>4–5</b>
MATH 222	Calculus and Analytic Geometry 2	
MATH 276	Topics in Calculus II	
<b>Physics</b>		<b>10</b>
<i>First Introductory Course (1 course)</i>		
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
PHYSICS 247	A Modern Introduction to Physics	
<i>Second Introductory Course (1 course)</i>		
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
<b>Total Credits</b>		<b>14–15</b>

### CHEMISTRY CORE COURSES

Code	Title	Credits
<b>General Chemistry (1 course)</b>		<b>5</b>
CHEM 104	General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I <sup>1</sup>	
<b>Analytical Chemistry (1 course)</b>		<b>4–5</b>
CHEM 329	Fundamentals of Analytical Science	
CHEM 116	Chemical Principles II	
CHEM 327	Fundamentals of Analytical Science	
<b>Inorganic Chemistry (1 course)</b>		<b>4</b>
CHEM 311	Chemistry Across the Periodic Table	
<b>Organic Chemistry (3 courses) <sup>2</sup></b>		<b>8</b>
CHEM 343	Organic Chemistry I	

CHEM 345	Organic Chemistry II	
CHEM 344	Introductory Organic Chemistry Laboratory	
<b>Physical Chemistry</b>		<b>8-9</b>
<b>Part 1 (1 course)</b>		
CHEM 561	Physical Chemistry	
CHEM 565	Biophysical Chemistry	
CBE 310	Chemical Process Thermodynamics	
M S & E 330	Thermodynamics of Materials	
<b>Part 2 (1 course)</b>		
CHEM 562	Physical Chemistry	
<b>Part 3 (2 courses)</b>		
CHEM 563	Physical Chemistry Laboratory I	
CHEM 564	Physical Chemistry Laboratory II	
<b>Total Credits</b>		<b>29-31</b>

## ADVANCED CHEMISTRY AND LABORATORY

Code	Title	Credits
<b>Advanced Non-laboratory Coursework</b>		<b>5</b>
CHEM 116	Chemical Principles II (1 credit counts towards requirements) <sup>3</sup>	
CHEM/ M S & E 421	Polymeric Materials	
CHEM/CBE 505	Aspects of Industrial Chemistry and Business Fundamentals	
CHEM 509	Senior Seminar	
CHEM 511	Advanced Inorganic Chemistry	
CHEM 524	Chemical Instrumentation (2 credits count towards requirement) <sup>4</sup>	
CHEM 547	Advanced Organic Chemistry	
CHEM 555	Study Abroad in Advanced Chemistry	
CHEM 565	Biophysical Chemistry (1 credit counts towards requirement) <sup>3</sup>	
CHEM 575	Advanced Topics in Chemistry	
CHEM 605	Spectrochemical Measurements	
CHEM 629	Atmospheric Chemical Mechanisms	
CHEM 654	Materials Chemistry of Polymers	
BIOCHEM 501 or BIOCHEM 507	Introduction to Biochemistry General Biochemistry I	
BIOCHEM 508	General Biochemistry II	
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	
CBE 440	Chemical Engineering Materials	
CBE 540	Polymer Science and Technology	
CBE 547	Introduction to Colloid and Interface Science	
<b>Additional Laboratory Work</b>		<b>3</b>
CHEM 346	Intermediate Organic Chemistry Laboratory	
CHEM 512	Advanced Synthesis and Laboratory Techniques	

CHEM 524	Chemical Instrumentation (1 credit counts towards requirement) <sup>4</sup>	
CHEM 681 & CHEM 682	Senior Honors Thesis and Senior Honors Thesis	
CHEM 691 & CHEM 692	Senior Thesis and Senior Thesis	
CHEM 699	Directed Study	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOCHEM 699	Special Problems	
CBE 599	Special Problems	
<b>Total Credits</b>		<b>8</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CHEM and major courses
- 2.000 GPA in at least 15 upper-level credits in the major in residence. Upper-level work includes CHEM 346, CHEM/M S & E 421, CHEM/CBE 505, CHEM 509, CHEM 511, CHEM 512, CHEM 524, CHEM 547, CHEM 555, CHEM 561, CHEM 562, CHEM 563, CHEM 564, CHEM 565, CHEM 575, CHEM 605, CHEM 629, CHEM 654, CHEM 681, CHEM 682, CHEM 691, CHEM 692, CHEM 699, BIOCHEM 501, BIOCHEM 507, BIOCHEM 508, BIOCHEM/NUTR SCI 510, BIOCHEM 625, BIOCHEM 681, BIOCHEM 682, BIOCHEM 691, CHEM 692, BIOCHEM 699, CBE 310, CBE 440, CBE 540, CBE 547, CBE 599, and M S & E 330.
- 15 credits in CHEM, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Chemistry Major in consultation with the chemistry major advisor (<https://www.chem.wisc.edu/content/undergraduate-advising/>). To be admitted to the Honors Program in Chemistry, students must have declared a major in chemistry and achieved a 3.200 overall GPA. They must also have achieved a 3.200 GPA in all CHEM courses taken and courses accepted for the major.

## HONORS IN THE CHEMISTRY MAJOR REQUIREMENTS

To earn Honors in the Major in Chemistry, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all CHEM courses and all major courses
- Complete an additional 3 credits, for a total of 8 credits, of advanced non-laboratory work. This requirement is met by the same credits and courses that are accepted for "Advanced Non-laboratory Work" in the regular major.
- Complete a two-semester Senior Honors Thesis in CHEM 681 Senior Honors Thesis and CHEM 682 Senior Honors Thesis, for a total of 6 credits.

## FOOTNOTES

1

Enrollment in CHEM 115 and CHEM 116 is by invitation only. Entering first-year students are invited to apply. Candidates are selected based on their high school record, placement test scores, and application responses.

2

CHEM 343 must be taken first, followed by CHEM 345. CHEM 344 may be taken concurrently with or after CHEM 345.

3

One credit from each of CHEM 116 and CHEM 565 count toward the required 5 credits of Advanced Non-laboratory Coursework.

4

Only 2 of the 3 credits from CHEM 524 count towards Advanced Non-laboratory Coursework. The remaining 1 credit counts towards the Additional Laboratory Work requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify, formulate and solve integrative problems using appropriate information and approaches.
2. Demonstrate an understanding of basic chemical transformations, including the ability to predict chemical reactivity and properties.
3. Recognize the relationship between structure, bonding and the properties of molecules and materials.
4. Model chemical systems and experimental data using relevant quantitative, mathematical and computational methods.
5. Design, conduct and analyze experiments safely and successfully.
6. Locate, evaluate and use information in the chemical literature.
7. Communicate chemical knowledge effectively through written reports, oral presentations and visual aids.
8. Work collaboratively with others, both chemists and those from other disciplines, to solve problems and create new knowledge.

9. Recognize how chemistry relates to contemporary issues in our society.

10. Understand professional and ethical responsibility.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 109 or 103 <sup>1</sup>	4-5	300-level Chemistry course OR	3-5
MATH 221	5	CHEM 104 (if needed) <sup>2</sup>	
Communications A (complete during first year)	3	MATH 222	4
Foreign Language (if required)	4	Ethnic Studies	3
		L&S Breadth	3
	<b>16</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
CHEM 343 <sup>3</sup>	3	CHEM 345	3
PHYSICS 207	5	CHEM 344	2
L&S Breadth	3	PHYSICS 208	5
Communications B (consult with advisor about timing) <sup>4</sup>	3-4	Research (optional) <sup>5</sup>	1-3
		L&S Breadth	3
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
CHEM 329 <sup>6</sup>	4	Physical Chemistry Part I <sup>7</sup>	3-4
MATH 234 (recommended, but not required)	4	CHEM 311	4
Research (optional) <sup>5</sup>	1-3	Advanced Non-laboratory Coursework <sup>8</sup>	3
L&S Breadth	3	Research (optional) <sup>5</sup>	1-3
INTER-LS 210 (optional)	1	L&S Breadth	3
	<b>14</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
CHEM 562	3	CHEM 564	1

CHEM 563	1 Research or other Additional Lab Work <sup>10</sup>	1-3
Research or other Additional Lab Work <sup>9</sup>	1-3 Advanced Non- laboratory Coursework (if needed)	3
Advanced Non- laboratory Coursework	3 L&S Breadth	3
L&S Breadth	3 L&S Breadth	3
L&S Breadth	3 Elective <sup>11</sup>	3
	<b>15</b>	<b>15</b>

**Total Credits 120****1**

CHEM 103 General Chemistry I/CHEM 104 General Chemistry II is a two-semester sequence in General Chemistry. Students with a strong high school chemistry background (usually two years) and placement into at least first semester calculus are eligible for CHEM 109 Advanced General Chemistry. CHEM 109 is an advanced, fast-paced option that covers General Chemistry in one semester. CHEM 109 is offered only in the fall semesters and an honors level section is available. An additional option is the CHEM 115 Chemical Principles I/CHEM 116 Chemical Principles II sequence, which is a small honors sequence for exceptionally well-prepared students. Enrollment in this sequence is by invitation only, and the two courses cover both general and analytical chemistry.

**2**

Students who took CHEM 109 in their first semester will not need CHEM 104. Instead, they may proceed to the next level of chemistry courses sooner by taking CHEM 311 Chemistry Across the Periodic Table or CHEM 329 Fundamentals of Analytical Science or CHEM 343 Organic Chemistry I in the second semester of their first year. In this case, some subsequent chemistry courses may also be taken sooner than shown in this plan.

**3**

Students must declare a major by the time they reach 86 credits. Students interested in chemistry may declare the major after completing general chemistry (CHEM 104, CHEM 109, or CHEM 116).

**4**

Communications B can be satisfied later through a chemistry course, CHEM 346 Intermediate Organic Chemistry Laboratory, if taken for 2 credits. CHEM 346 will also count towards additional lab work needed for the chemistry major.

**5**

Research can be taken for credit by enrolling in CHEM 299 Directed Study (for students with less than 54 earned credits) or CHEM 699 Directed Study (for students with 54 or more earned credits). CHEM 299 does not satisfy additional lab credits required for the major, while CHEM 699 does. Alternatively, research may be conducted as a volunteer or for pay. Students must search for and be accepted into a research group before beginning research.

**6**

According to L&S policy, students must complete at least 60 credits at the intermediate or advanced level.

**7**

Options include CHEM 561 Physical Chemistry, CHEM 565 Biophysical Chemistry, and CBE 310 Chemical Process Thermodynamics (only for students also majoring in Chemical & Biological Engineering).

**8**

Five advanced non-laboratory credits are required for the major. Please see the Requirements tab in the Guide for a list of courses that count towards this requirement.

**9**

Three credits of additional lab work are required for the major. These credits can be satisfied by research (CHEM 699, for example) or by courses. Please see the Requirements tab in the Guide for a complete list of options. CHEM 346 is one option, and when taken for 2 credits also satisfies Comm-B. CHEM 346 is ONLY offered in FALL semester, with most students taking it in their fourth year. Students not planning to take CHEM 346 should plan to take their Comm-B earlier through one of their other required breadth courses.

**10**

CHEM 524 Chemical Instrumentation and CHEM 512 Advanced Synthesis and Laboratory Techniques are options that are only offered in the spring semesters. CHEM 524 (3 credits) satisfies 1 additional lab work credit and 2 advanced non-laboratory credits.

**11**

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree requirements as well as Residence and Quality of Work requirements for the major.

## ADVISING AND CAREERS

### ADVISING

The chemistry advisor provides advising for chemistry majors and prospective chemistry majors. Both appointments and drop-in hours are available. See Undergraduate Advising (<https://www.chem.wisc.edu/undergraduate-advising/>) on the Department of Chemistry website for more details.

The Chemistry website also provides information about introductory chemistry courses (<https://chem.wisc.edu/introductory-chemistry-courses-and-placement/>) and placement for continuing and new undergraduate students (<https://chem.wisc.edu/new-undergraduate-students/>) interested in taking a chemistry course. Students with enrollment and course access questions should visit the enrollment inquiries (<https://chem.wisc.edu/enrollment-inquiries/>) page. If further assistance is needed, students may visit the Undergraduate Chemistry Office (room 1351 Chemistry) during normal business hours, email ([undergrad@chem.wisc.edu](mailto:undergrad@chem.wisc.edu)), or call 608-263-2424.

Chemistry majors interested in getting involved in research should explore the undergraduate research (<https://undergradresearch.chem.wisc.edu/>) pages on the chemistry website. Students needing additional information may contact the undergraduate research director by email ([chem\\_ugr\\_research@chem.wisc.edu](mailto:chem_ugr_research@chem.wisc.edu)).

### COURSE SELECTION AND SEQUENCING

The Requirements (<https://guide.wisc.edu/undergraduate/letters-science/chemistry/chemistry-bs/#requirementstext>) page provides the minimum requirements necessary for completing the chemistry major. This section provides additional advisory information about course selection and sequencing.

- In addition to MATH 222 Calculus and Analytic Geometry 2, it is highly recommended that majors also take MATH 234 Calculus--Functions of Several Variables and MATH 320 Linear Algebra and Differential Equations. The extra math is especially helpful to students when they take the required physical chemistry courses.
- PHYSICS 207 / PHYSICS 208 is the preferred physics sequence for most chemistry majors, while PHYSICS 201 / PHYSICS 202 is recommended for engineering students. PHYSICS 247 / PHYSICS 248 is intended for students considering a major in physics, astronomy-physics, or AMEP (applied mathematics, engineering, and physics).
- Chemistry majors are strongly encouraged to take either CHEM 329 or CHEM 116 (as opposed to CHEM 327) to satisfy their analytical chemistry requirement, because research is an integral part of these two courses. Both CHEM 329 and CHEM 116 come with honors credit, but students do not need to be part of an honors program to enroll.
- Most chemistry majors take CHEM 561 or CHEM 565 for Physical Chemistry Part I. Students also majoring in chemical and biological engineering take CBE 310 instead. M S & E 330 is recommended only for students also majoring in materials science and engineering.
- It is recommended that CHEM 563 be taken after Physical Chemistry Part I and that CHEM 564 be taken after CHEM 562. Especially strong students needing to complete physical chemistry in two semesters may take CHEM 563 concurrently with CHEM 561 (or CHEM 565) and CHEM 564 concurrently with CHEM 562.

## CAREER SERVICES

The chemistry major prepares graduates for a wide variety of careers in the chemical and related industries (e.g., consumer and agricultural products, materials, energy, petroleum, paper, and food), as well as environmental, pharmaceutical, and other health-related sciences. Combined with a master's program in secondary education, the major qualifies the student to teach chemistry in secondary schools. The major prepares students for graduate-level work in chemistry, chemical physics, biochemistry, biophysics, materials chemistry, and other related fields. Students who excel in undergraduate chemistry coursework are able to obtain funding for graduate studies in chemistry and related sciences through teaching or research assistantships and fellowships. Some chemistry major graduates go on to professional schools to study medicine, pharmacy, dentistry, veterinary medicine, business, or law.

Students are encouraged to begin their career planning early and to take advantage of the numerous resources offered by SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science (see below). Information about careers, internships, resumes, cover letters, job search strategies, interviewing, and graduate school preparation are all available through SuccessWorks. Students can also register for Handshake (<https://wisc.joinhandshake.com/login/>), an online resource for students to make connections with potential employers. Current career, research, and internship opportunities of specific interest to chemistry students can be found on the Career Services (<https://chem.wisc.edu/career-services/>) pages of the chemistry website.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Berry, John  
 Bertram, Timothy  
 Blackwell, Helen (associate chair for graduate program)  
 Boros, Eszter  
 Boydston, Andrew  
 Brunold, Thomas  
 Burstyn, Judith  
 Cavagnero, Silvia  
 Choi, Kyoung-Shin  
 Coon, Joshua  
 Ediger, Mark  
 Fredrickson, Daniel (associate chair for research)  
 Garand, Etienne  
 Gellman, Samuel  
 Goldsmith, Randall  
 Hamers, Robert  
 Hermans, Ive  
 Huang, Xuhui  
 Jin, Song  
 Landis, Clark (chair)  
 McMahon, Robert  
 Nathanson, Gilbert  
 Schmidt, Jordan (associate chair for undergraduate program)  
 Schomaker, Jennifer  
 Schwartz, David  
 Smith, Lloyd  
 Stahl, Shannon  
 Weix, Daniel  
 Widicus Weaver, Susanna  
 Yethiraj, Arun

Yoon, Tehshik  
Zanni, Martin

## ASSISTANT PROFESSORS

Buller, Andrew  
Martell, Jeffrey  
Pazicni, Samuel  
Soley, Micheline  
Stowe, Ryan  
Todd, Zoe  
Wang, Tina  
Wickens, Zachary  
Yang, Yang

## AFFILIATED PROFESSORS

Attie, Alan (Professor of Biochemistry)  
Engle, Jonathan (Associate Professor of Medical Physics)  
Feng, Dawei (Assistant Professor of Materials Science and Engineering)  
Forest, Katrina (Professor of Bacteriology)  
Ge, Ying (Professor of Cell and Regenerative Biology)  
Gilbert, Pupa (Professor of Physics)  
Golden, Jennifer (Associate Professor of Pharmacy)  
Gong, Sarah (Professor of Biomedical Engineering)  
Gopalan, Padma (Professor of Materials Science and Engineering)  
Hoskins, Aaron (Associate Professor of Biochemistry)  
Li, Lingjun (Professor of Pharmacy)  
Lynn, David (Professor of Chemical and Biological Engineering)  
Mecozzi, Sandro (Professor of Pharmacy)  
Ping, Yuan (Associate Professor of Materials Science & Engineering)  
Remucal, Christy (Associate Professor of Civil & Environmental Engineering)  
Rienstra, Chad (Professor of Biochemistry)  
Schreier, Marcel (Assistant Professor of Chemical and Biological Engineering)  
Tang, Weiping (Professor of Pharmacy)  
Van Lehn, Reid (Associate Professor of Chemical and Biological Engineering)  
Weeks, Amy (Assistant Professor of Biochemistry)  
Yesilkoy, Filiz (Assistant Professor of Biomedical Engineering)  
Yu, Lian (Professor of Pharmacy)

## INSTRUCTIONAL STAFF

Anzovino, Mary Beth (Associate Director of Organic Chemistry Labs)  
Bain, Rachel (Senior Instructional Technology Specialist)  
Block, Stephen (Associate Director General Chemistry Labs)  
Bowman, Matthew (Senior Lecturer)  
Buchberger, Amanda (Associate Director Analytical Labs)  
Doolittle, Pamela (Distinguished Analytical Chemistry Lab Director)  
Esselman, Brian (Distinguished Associate Director Organic Chemistry Labs)  
Gustin, Léa (Associate Director General Chemistry Labs)  
Hill, Nicholas (Distinguished Director Organic Chemistry Labs)  
Hooker, Paul (Senior Lecturer)  
Lamont, Liana (General Chemistry Instructional Coordinator)  
Maynard, James (Teaching, Learning, & Technology Specialist)  
McClain, Robert (Analytical Chemistry Lab Director)  
Schueneman, Susan (Senior Teaching Specialist)  
Trate, Jaclyn (Instructional Innovator)  
Weaver, Jeremy (Instructor & Curriculum Coordinator)  
Wendt, Mark (Physical Chemistry Lab Director)  
Wilkinson, Chad (Distinguished General & Inorganic Chem Lab Director)

Zelewski, Linda (Senior Lecturer)  
Zhou, Jia (Undergraduate Instructor & Resource Dev Specialist)

## CHEMISTRY LEARNING CENTER

Brown, Rebecca (Instructor)  
Dang, Allice (Instructor)  
Hughes, Christopher (Instructor)  
Jetzer, Kelly (Instructor)  
Killian, Michelle (Instructor)  
Lee, Agnes (Instructor)  
Ramey, Shea (Instructor)  
Reitz, Tracey (Director)  
Saloni, Julia (Instructor)  
Toland, David (Instructor)  
Zavala, Yashira (Instructor)

## STUDENT SERVICES AND ADVISING

Barta, Cheri (Director of Undergraduate Research)  
Hamers, Jeanne (Undergraduate Chemistry Director)  
McCullough, Katie (Academic Advising Manager)

## WISCONSIN EXPERIENCE

## RESEARCH

There are many research opportunities for undergraduates in the Department of Chemistry. When conducting research, students will have the opportunity to work alongside world-class faculty, staff, and graduate students to gain hands-on research experiences that will supplement their liberal arts education and prepare students for future careers. We have researchers involved in all the core areas of chemistry: analytical, chemical biology, chemical education, inorganic, materials, organic, physical, and theoretical. Many of our researchers conduct research across disciplines, including medicine, pharmacy, biology, engineering, energy, environmental sciences, and physics. Although preference is given to chemistry majors in good academic standing, any student interested in conducting chemistry research can seek out opportunities in our department. Students have the option of volunteering in a research lab or conducting research for course credit by enrolling in CHEM 299 Directed Study, CHEM 699 Directed Study, CHEM 681/CHEM 682 Senior Honors Thesis, or CHEM 691/CHEM 692 Senior Thesis. Students can also gain research experiences through the elective courses CHEM 260 Entering Research I, CHEM 261 Entering Research II, and CHEM 346 Intermediate Organic Chemistry Laboratory, as well as the required course CHEM 329 Fundamentals of Analytical Science. In some cases, experienced undergraduates may be paid to conduct research. For additional information about undergraduate research, including how to get involved, please visit the department's Undergraduate Research (<https://undergradresearch.chem.wisc.edu/>) page.

## STUDENT ORGANIZATIONS

A number of student organizations are available for students interested in the chemical sciences.

- Alpha Chi Sigma (AXE) (<http://alphachisigmauw.com/>) is a national, co-ed, professional chemistry organization that was founded at UW-Madison in 1902. The UW-Madison chapter has an active membership of about 40 students, both graduate and undergraduate. The organization also has two houses, at 619 and 621 North Lake Street, which house nearly half of the members. The houses are the primary

locations for events like tutoring, chapter dinners, meetings, and social events.

- The UW–Madison student chapter of NOBCChE (<https://www.nobcche.org/>) (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers) seeks to encourage students of color to pursue graduate and professional degrees in chemistry, chemical engineering, and other chemistry-related fields. Members participate in professional development through national conference presentations, networking, and community service activities.
- SACNAS (<https://win.wisc.edu/organization/sacnas/>) (the Society for the Advancement of Hispanics/Chicanos and Native Americans) is a society of scientists dedicated to fostering the success of Hispanic/Chicano and Native American scientists—from college students to professionals—to attain advanced degrees, careers, and positions of leadership in science.

## CERTIFICATION/LICENSURE

### ACS CERTIFIED DEGREE

The UW–Madison Department of Chemistry is approved by the American Chemical Society (ACS) to certify the degrees of graduating students who have completed the curriculum and professional training recommended by ACS for chemistry bachelor's degree graduates. Certification indicates that the student has completed rigorous course work that provides them with the skills needed for a successful career in science.

Students graduating with the chemistry major from UW–Madison already meet most of the requirements for ACS certification. They can obtain the certification by electing to take specific courses that satisfy both the requirements of the major and the ACS guidelines. Additional requirements for certification are:

- A course in biochemistry, satisfied by BIOCHEM 501 Introduction to Biochemistry or BIOCHEM 507 General Biochemistry I (3 credits)
- At least 400 total laboratory hours, which can be satisfied by the combination of all the required core laboratory courses (in organic, inorganic, analytical and physical chemistry) plus two to three laboratory credits from any combination of CHEM 346 Intermediate Organic Chemistry Laboratory, CHEM 512 Advanced Synthesis and Laboratory Techniques, CHEM 524 Chemical Instrumentation (3 credit course, but only one credit is a lab credit), CHEM 681/CHEM 682 Senior Honors Thesis, or CHEM 691/ CHEM 692 Senior Thesis. The exact number of lab credits required from these courses depends on how the student has satisfied the core lab requirements. Please consult the Chemistry Major Advisor (<https://www.chem.wisc.edu/content/undergraduate-advising/>) for more details.

The biochemistry course satisfies three of the five credits of advanced non-laboratory work required for the chemistry major, while two credits from CHEM 524 also count towards the advanced work. CHEM 346, CHEM 512, 1 credit of CHEM 524, CHEM 681/CHEM 682, and CHEM 691/CHEM 692 all count towards the three additional lab credits required for the major.

Note that neither CHEM 299 Directed Study nor CHEM 699 Directed Study can be used to satisfy the lab hours needed for ACS certification. However, CHEM 699 can be used to satisfy additional lab credits needed for the chemistry major.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states: The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC RESOURCES

A number of resources are available to students seeking assistance with their chemistry courses. Students are strongly encouraged to attend instructor and TA office hours or the Help Desk for the course.

The Chemistry Learning Center (CLC) (<https://clc.chem.wisc.edu/>) supports students in introductory chemistry courses (CHEM 103, CHEM 104, and CHEM 108) and in some sections of organic chemistry. The center welcomes as many students as possible but unfortunately does not have sufficient resources to support all students seeking help. The center is funded to work with specific groups of students, such as first-generation low-income students, underrepresented students, students on academic probation, students with disabilities, students who have trouble understanding English, new transfer students, recently returning veterans, and students at-risk of failing the course. These are general guidelines and the center considers each student seeking assistance on a case-by-case basis, taking into account available program space. Program eligibility is usually determined by an interview with a staff member.

Further assistance may be sought from various tutoring services on campus, including the Greater University Tutoring Services (GUTS) (<http://www.guts.wisc.edu/>), University Housing Tutoring (<http://www.housing.wisc.edu/residencehalls-academics-tutoring.htm>), and the College of Engineering Undergraduate Learning Center (ULC) (<https://www.engr.wisc.edu/academics/student-services/ulc/>). Alpha Chi Sigma (AXE) (<http://alphachisigmauw.com/>) is a co-ed professional chemistry fraternity that also offers tutoring. For students seeking more individualized tutoring, the Department of Chemistry maintains a list of



private tutors (<https://chem.wisc.edu/academic-support/>) available for hire.

## SCHOLARSHIPS

Through the generosity of alumni and other friends of the department, the Department of Chemistry is able to offer scholarships and summer research support. In 2022, the department awarded more than 40 scholarships totaling over \$180,000.

Any student who is a chemistry major or is conducting research with a chemistry faculty member is eligible to apply for the scholarships. Awards are based on both merit and financial need. Students may apply for academic year scholarships and/or summer research support. Learn more about chemistry scholarships (<https://chem.wisc.edu/scholarships-fellowships-awards/>) and how to apply.

## CHICANA/O AND LATINA/O STUDIES

The Chican@ and Latin@ Studies Program (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS certificate is designed to provide students with a broad knowledge base and the intellectual tools to understand the unity and diversity of US Latin@ populations. The primary objective of the CLS program is to train students in the study of Chican@s and Latin@s, as well as to introduce them to the central questions, topics, and applications that have emerged in this field of inquiry.

CLS offers a variety of courses, some focusing on particular national-origin groups or specific academic disciplines, and others organized around comparative topics or issues. We welcome you to join our academic community of learners.

**Note:** The @ ending ("a" at the center of "o") offers a simultaneous presentation of both the feminine and masculine word endings of Chicana, Chicano, Latina, and Latino and allows readers/speakers to choose the form they prefer.

## DEGREES/MAJORS/CERTIFICATES

- Chicana/o and Latina/o Studies, B.A. (p. 593)
- Chicana/o and Latina/o Studies, B.S. (p. 597)
- Chicana/o and Latina/o Studies, Certificate (p. 601)

## PEOPLE

For a detailed list of faculty, please see the department website (<https://chicla.wisc.edu/chican-latin-studies-professors/>).

## CHICANA/O AND LATINA/O STUDIES, B.A.

The program in Chican@ and Latin@ Studies (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS major and certificate are designed to provide students with a broad knowledge

base and the intellectual tools to understand the unity and diversity of those people and cultures, both historically and in the contemporary period, as they explore the central questions and topics that have emerged in this interdisciplinary field. The CLS curriculum enables students to engage with the history, experience, arts, cultural production, and social lives of communities of Latin American descent in the United States, developing their capacities for civic and community engagement as well as research, writing, and analytical skills. CLS graduates are equipped to include and engage with diverse perspectives as they pursue careers in such fields as education, social service, communications, publishing, business, journalism, agriculture, engineering, the arts, construction, and the health professions.

## HOW TO GET IN

To declare the Chicana/o and Latina/o Studies major, a student should set up an appointment with the CLS advisor. It is recommended that students declare the major as early as possible to plan the required coursework. There are no specific courses that must be completed before declaration.

Students declared in the Chicana/o and Latina/o Studies Certificate may not be declared in the Chicana/o and Latina/o Studies major at the same time. Students who do wish to declare this major must first cancel their declaration into the Chicana/o and Latina/o Studies Certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 30 credits and the specific requirements include:

Code	Title	Credits
<b>Introductory Course</b>		
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
<b>Introductory Elective</b> <b>3</b>		
CHICLA/ AFROAMER/ AMER IND/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	
CHICLA/ HISTORY 151	The North American West to 1850	
CHICLA/ HISTORY 152	The U.S. West Since 1850	
CHICLA/ HISTORY 153	Latina/Latino/Latinx History	
CHICLA 210	Chicana/o and Latina/o Cultural Studies	
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	
CHICLA/ GEN&WS/ HISTORY 245	Chicana and Latina History	
CHICLA/ HISTORY/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change	
COUN PSY 230	Race and the Developing Child	
<b>Cultures and Histories</b> <b>9</b>		
CHICLA 301	Chicana/o and Latina/o History	
CHICLA 328	Cultures and Histories Topics in Chicana/o & Latina/o Studies	
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	
CHICLA/ HISTORY/LACIS/ POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	
CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	
CHICLA/ ENGL 368	Chicana/o and Latina/o Literatures	
CHICLA/ COM ARTS 419	Latino/as and Media	
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	
CHICLA/ ENGL 460	Black and Latinx in Literature and Visual Culture	
CHICLA/ SPANISH 467	US Latino Literature	
CHICLA/ SPANISH 469	Topics in Latinx Culture	
CHICLA/ SPANISH 478	Border and Race Studies in Latin America	

CHICLA 520	Latinx Digital Publics
CHICLA 699	Directed Study
<b>Individuals, Peoples, Societies 9</b>	
CHICLA/ POLI SCI 302	Mexican-American Politics
CHICLA/ GEN&WS/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism
CHICLA 315	Racial Formation and Whiteness
CHICLA 330	Topics in Chicano/a Studies
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change
CHICLA/ HISTORY/ POLI SCI 422	Latino History and Politics
CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice
CHICLA/ LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
CHICLA/ LAND ARC 475	Latino Urbanism: Design and Engagement in the American City
CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.
CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies
CHICLA 699	Directed Study
POLI SCI 304	The Political Economy of Race in the United States
<b>Serving Chicanx and Latinx Communities 6</b>	
CHICLA/ CURRIC 306	Latinx Literacies
CHICLA/ CURRIC 321	Chicano/Latino Educational Justice
CHICLA 329	Education and Service Topics in Chicana/o & Latina/o Studies
CHICLA/ COUN PSY 331	Immigrant Health and Wellbeing
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services
CHICLA 699	Directed Study
CURRIC 670	Theories of Bilingualism and Biliteracy
CURRIC 676	Bilingualism and Biliteracy in Schools
HDFS 474	Racial Ethnic Families in the U.S.
<b>Total Credits 30</b>	

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CHICLA and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence. Upper-level in the major includes CHICLA courses numbered 300 and above and courses that count for the major that are designated as Intermediate or Advanced level.
- 15 credits in CHICLA taken in residence on the UW-Madison campus

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify and analyze core concepts, important social and political issues, and key artistic and cultural expressions related to Chicana/o and Latina/o life in the United States.
2. Discuss the histories of Chicanas/os and Latinas/os in the United States and their implications for contemporary problems of racialization, social stratification, colonialism, and oppression.
3. Describe the commonalities and differences among Chicanas/os and Latinas/os along lines of class, gender, race, sexuality, citizenship, and national origin, and evaluate Latinidad as a pan-ethnic category in the United States.
4. Analyze relations between Chicanas/os and Latinas/os in the United States and their countries of heritage from a transnational and transborder perspective.
5. Apply ideas from Chicana/o and Latina/o Studies to concrete problems through service-learning and community-based research, in a spirit of dialogue and reciprocal exchange informed by ethical and social justice principles.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner,

and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
CHICLA 201	3	CHICLA introductory elective	3
Communication A	3	Biological Science Breadth	3
Quantitative Reasoning A	3-4	CHICLA major course 3 (Cultures and Histories)	3
Foreign Language	4	Elective	3
Elective	3	Elective	3
<b>16</b>		<b>15</b>	

### Second Year

Fall	Credits	Spring	Credits
CHICLA major course 4	3	CHICLA major course 5 (Serving Chicanx & Latinx Communities)	3
Quantitative Reasoning-B	3	Communication B (Communication B can be fulfilled with CHICLA 501 or 520)	3
INTER-LS 210 (elective)	1	Physical Science Breadth	3
Intermediate elective	3	Intermediate elective	3
Intermediate elective	3	Intermediate elective	3
<b>13</b>		<b>15</b>	

### Third Year

Fall	Credits	Spring	Credits
CHICLA major course 6 (Individuals, Peoples, Societies)	3	CHICLA major course 7 (Cultures and Histories)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	CHICLA major course 8 (Serving Chicanx & Latinx Communities)	3
Intermediate Elective	3	Science Breadth	3
Science Breadth	3	Intermediate Elective	3
Intermediate Elective	3	Intermediate Elective	3
<b>15</b>		<b>15</b>	

### Fourth Year

Fall	Credits	Spring	Credits
CHICLA major course 9 (Individuals, Peoples, Societies)	3	CHICLA major course 10 (Cultures and Histories)	3
Advanced elective	3	Advanced elective	3
I/A Comp Sci, MATH, or STAT (if B.S.)	3	Advanced elective	3
Advanced elective	4	Advanced elective	3

Advanced elective	3	Advanced elective	3
<b>16</b>		<b>15</b>	

### Total Credits 120

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. The plan assumes that students are coming to UW-Madison with approximately 27 credits from AP/IB or college transfer credits. Your plan may look different depending on the number of credits you bring in.

#### First Year

Fall	Credits	Spring	Credits
CHICLA 201	3	CHICLA Introductory Elective	3
Communication A	3	Biological Science Breadth	3
Quantitative Reasoning A	3-4	CHICLA Major Course 3 (Serving Chicanx and Latinx Communities)	3
Foreign Language	4	Elective	3
Elective	3	Elective	4
<b>16</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
CHICLA major course 4 (Individuals, Peoples, Societies)	3	CHICLA major course 5 (Cultures and Histories)	3
Quantitative Reasoning-B	3	Communication-B (Communication B can be fulfilled with CHICLA 501 or 520)	3
Elective	3	Physical Science Breadth	3
Foreign Language 3	3	CHICLA major course 6 (Individuals, Peoples, Societies)	3
INTER-LS 210 (elective)	1	Intermediate Elective	3
Intermediate elective	3		
<b>16</b>		<b>15</b>	

**Third Year**

Fall	Credits	Spring	Credits
CHICLA major course 7 (Individuals, Peoples, Societies)	3	CHICLA major course 9 (Cultures and Histories)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	CHICLA major course 10 (Serving Chicanx & Latinx Communities)	3
CHICLA major course 8 (Cultures and Histories)	3	I/A Comp Sci, Math or Stats (if required for BS)	3
Science Breadth	3	Science Breadth	3
Advanced elective	3	Advanced elective	3
	<b>15</b>		<b>15</b>

**Total Credits 93****ADVISING AND CAREERS****DEPARTMENTAL ADVISING**

Academic advising for the CLS major and certificate is available in the Student Advising Office, 307 Ingraham Hall. Prospective and current students must make an appointment with Senior Advisor Rachele Eilers, [reilers@wisc.edu](mailto:reilers@wisc.edu), to discuss requirements, courses, and application to the major or certificate. CLS graduates have enjoyed great success in fields including the health professions, social service, education, law, journalism, business, the arts, politics, and government service.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students

- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE****CHICANA/O AND LATINA/O STUDIES (CLS) DIRECTOR**

Rubén Medina (Spanish and Portuguese)

**STAFF**

Rachele Eilers (Senior Advisor)

Peter Haney (Program Administrator)

For a full list of CLS faculty and staff, please visit the Program's website (<https://chicla.wisc.edu/chican-latin-studies-professors/>).

**CHICANA/O AND LATINA/O STUDIES, B.S.**

The program in Chican@ and Latin@ Studies (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS major and certificate are designed to provide students with a broad knowledge base and the intellectual tools to understand the unity and diversity of those people and cultures, both historically and in the contemporary period, as they explore the central questions and topics that have emerged in this interdisciplinary field. The CLS curriculum enables students to engage with the history, experience, arts, cultural production, and social lives of communities of Latin American descent in the United States, developing their capacities for civic and community engagement as well as research, writing, and analytical skills. CLS graduates are equipped to include and engage with diverse perspectives as they pursue careers in such fields as education, social service, communications, publishing, business, journalism, agriculture, engineering, the arts, construction, and the health professions.

**HOW TO GET IN**

To declare the Chicana/o and Latina/o Studies major, a student should set up an appointment with the CLS advisor. It is recommended that students declare the major as early as possible to plan the required coursework. There are no specific courses that must be completed before declaration.

Students declared in the Chicana/o and Latina/o Studies Certificate may not be declared in the Chicana/o and Latina/o Studies major at the same time. Students who do wish to declare this major must first cancel their declaration into the Chicana/o and Latina/o Studies Certificate.

**REQUIREMENTS****UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The major requires a minimum of 30 credits and the specific requirements include:

Code	Title	Credits
<b>Introductory Course</b>		
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
<b>Introductory Elective</b>		<b>3</b>
CHICLA/AFROAMER/AMER IND/ASIAN AM/FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	
CHICLA/HISTORY 151	The North American West to 1850	
CHICLA/HISTORY 152	The U.S. West Since 1850	
CHICLA/HISTORY 153	Latina/Latino/Latinx History	
CHICLA 210	Chicana/o and Latina/o Cultural Studies	
CHICLA/POLI SCI 231	Politics in Multi-Cultural Societies	
CHICLA/GEN&WS/HISTORY 245	Chicana and Latina History	
CHICLA/HISTORY/LACIS/POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change	
COUN PSY 230	Race and the Developing Child	
<b>Cultures and Histories</b>		<b>9</b>
CHICLA 301	Chicana/o and Latina/o History	
CHICLA 328	Cultures and Histories Topics in Chicana/o & Latina/o Studies	
CHICLA/COM ARTS 347	Race, Ethnicity, and Media	
CHICLA/HISTORY/LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	

CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture
CHICLA/ ENGL 368	Chicana/o and Latina/o Literatures
CHICLA/ COM ARTS 419	Latino/as and Media
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World
CHICLA/ ENGL 460	Black and Latinx in Literature and Visual Culture
CHICLA/ SPANISH 467	US Latino Literature
CHICLA/ SPANISH 469	Topics in Latinx Culture
CHICLA/ SPANISH 478	Border and Race Studies in Latin America
CHICLA 520	Latinx Digital Publics
CHICLA 699	Directed Study

**Individuals, Peoples, Societies 9**

CHICLA/ POLI SCI 302	Mexican-American Politics
CHICLA/ GEN&WS/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism
CHICLA 315	Racial Formation and Whiteness
CHICLA 330	Topics in Chicano/a Studies
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change
CHICLA/ HISTORY/ POLI SCI 422	Latino History and Politics
CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice
CHICLA/ LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
CHICLA/ LAND ARC 475	Latino Urbanism: Design and Engagement in the American City
CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.
CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies
CHICLA 699	Directed Study
POLI SCI 304	The Political Economy of Race in the United States

**Serving Chicanx and Latinx Communities 6**

CHICLA/ CURRIC 306	Latinx Literacies
CHICLA/ CURRIC 321	Chicano/Latino Educational Justice
CHICLA 329	Education and Service Topics in Chicana/o & Latina/o Studies

CHICLA/ COUN PSY 331	Immigrant Health and Wellbeing
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services
CHICLA 699	Directed Study
CURRIC 670	Theories of Bilingualism and Bilinguality
CURRIC 676	Bilingualism and Bilinguality in Schools
HDFS 474	Racial Ethnic Families in the U.S.

**Total Credits 30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CHICLA and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence. Upper-level in the major includes CHICLA courses numbered 300 and above and courses that count for the major that are designated as Intermediate or Advanced level.
- 15 credits in CHICLA taken in residence on the UW-Madison campus

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify and analyze core concepts, important social and political issues, and key artistic and cultural expressions related to Chicana/o and Latina/o life in the United States.
2. Discuss the histories of Chicanas/os and Latinas/os in the United States and their implications for contemporary problems of racialization, social stratification, colonialism, and oppression.
3. Describe the commonalities and differences among Chicanas/os and Latinas/os along lines of class, gender, race, sexuality, citizenship, and national origin, and evaluate Latinidad as a pan-ethnic category in the United States.

- Analyze relations between Chicanas/os and Latinas/os in the United States and their countries of heritage from a transnational and transborder perspective.
- Apply ideas from Chicana/o and Latina/o Studies to concrete problems through service-learning and community-based research, in a spirit of dialogue and reciprocal exchange informed by ethical and social justice principles.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHICLA 201	3	CHICLA introductory elective	3
Communication A	3	Biological Science Breadth	3
Quantitative Reasoning A	3-4	CHICLA major course 3 (Cultures and Histories)	3
Foreign Language	4	Elective	3
Elective	3	Elective	3
<b>16</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
CHICLA major course 4	3	CHICLA major course 5 (Serving Chicanx & Latinx Communities)	3
Quantitative Reasoning-B	3	Communication B <small>Communication B can be fulfilled with CHICLA 501 or 520</small>	3
INTER-LS 210 (elective)	1	Physical Science Breadth	3
Intermediate elective	3	Intermediate elective	3
Intermediate elective	3	Intermediate elective	3
<b>13</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
CHICLA major course 6 (Individuals, Peoples, Societies)	3	CHICLA major course 7 (Cultures and Histories)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	CHICLA major course 8 (Serving Chicanx & Latinx Communities)	3
Intermediate Elective	3	Science Breadth	3
Science Breadth	3	Intermediate Elective	3

Intermediate Elective	3	Intermediate Elective	3
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
CHICLA major course 9 (Individuals, Peoples, Societies)	3	CHICLA major course 10 (Cultures and Histories)	3
Advanced elective	3	Advanced elective	3
I/A Comp Sci, MATH, or STAT (if B.S.)	3	Advanced elective	3
Advanced elective	4	Advanced elective	3
Advanced elective	3	Advanced elective	3
<b>16</b>		<b>15</b>	

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. The plan assumes that students are coming to UW-Madison with approximately 27 credits from AP/IB or college transfer credits. Your plan may look different depending on the number of credits you bring in.

#### First Year

Fall	Credits	Spring	Credits
CHICLA 201	3	CHICLA Introductory Elective	3
Communication A	3	Biological Science Breadth	3
Quantitative Reasoning A	3-4	CHICLA Major Course 3 (Serving Chicanx and Latinx Communities)	3
Foreign Language	4	Elective	3
Elective	3	Elective	4
<b>16</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
CHICLA major course 4 (Individuals, Peoples, Societies)	3	CHICLA major course 5 (Cultures and Histories)	3



Quantitative Reasoning-B	3	Communication-B Communication B can be fulfilled with CHICLA 501 or 520	3
Elective	3	Physical Science Breadth	3
Foreign Language 3	3	CHICLA major course 6 (Individuals, Peoples, Societies)	3
INTER-LS 210 (elective)	1	Intermediate Elective	3
Intermediate elective	3		
	<b>16</b>		<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
CHICLA major course 7 (Individuals, Peoples, Societies)	3	CHICLA major course 9 (Cultures and Histories)	3
I/A Comp Sci, Math or Stats (if required for BS)	3	CHICLA major course 10 (Serving Chicanx & Latinx Communities)	3
CHICLA major course 8 (Cultures and Histories)	3	I/A Comp Sci, Math or Stats (if required for BS)	3
Science Breadth	3	Science Breadth	3
Advanced elective	3	Advanced elective	3
	<b>15</b>		<b>15</b>

**Total Credits 93**

## ADVISING AND CAREERS

### DEPARTMENTAL ADVISING

Academic advising for the CLS major and certificate is available in the Student Advising Office, 307 Ingraham Hall. Prospective and current students must make an appointment with Senior Advisor Rachelle Eilers, [reilers@wisc.edu](mailto:reilers@wisc.edu), to discuss requirements, courses, and application to the major or certificate. CLS graduates have enjoyed great success in fields including the health professions, social service, education, law, journalism, business, the arts, politics, and government service.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)

- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

For a detailed list of faculty, please see the department website (<https://chicla.wisc.edu/chican-latin-studies-professors/>).

## CHICANA/O AND LATINA/O STUDIES, CERTIFICATE

The program in Chican@ and Latin@ Studies (CLS) offers a systematic and interdisciplinary analysis of Mexican- and Latin-American-origin people, cultures, and collectivities within the United States. The CLS certificate is designed to provide students with a broad knowledge base and the intellectual tools to understand the unity and diversity of US Latin@ populations. The primary objective of the CLS program is to train students in the study of Chican@s and Latin@s, as well as to introduce them to the central questions, topics, and applications that have emerged in this field of inquiry.

## HOW TO GET IN

To declare, students should make an appointment with the program advisor to discuss requirements, courses, and application to the certificate.

Students declared in the Chicana/o and Latina/o Studies major are not eligible to declare the Chicana/o and Latina/o Studies certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Completion of the certificate requires a minimum of **15 credits** in Chicana/o and Latina/o studies.<sup>1</sup>

Code	Title	Credits
<b>Complete one Introduction Course:</b>		
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
<b>Complete at least one additional 100- or 200-level course</b>		<b>3</b>

CHICLA/ AFROAMER/ AMER IND/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	CHICLA/ COUN PSY 331	Immigrant Health and Wellbeing
CHICLA/ HISTORY 151	The North American West to 1850	CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change
CHICLA/ HISTORY 152	The U.S. West Since 1850	CHICLA/ COM ARTS 347	Race, Ethnicity, and Media
CHICLA/ HISTORY 153	Latina/Latino/Latinx History	CHICLA/ HISTORY/LACIS/ POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective
CHICLA 210	Chicana/o and Latina/o Cultural Studies	CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	CHICLA/ ENGL 368	Chicana/o and Latina/o Literatures
CHICLA/ GEN&WS/ HISTORY 245	Chicana and Latina History	CHICLA/ COM ARTS 419	Latino/as and Media
CHICLA/ HISTORY/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	CHICLA/ HISTORY/ POLI SCI 422	Latino History and Politics
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change	CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World
COUN PSY 230	Race and the Developing Child	CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	CHICLA/ LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	CHICLA/ ENGL 460	Black and Latinx in Literature and Visual Culture
SOC 134	Sociology of Race & Ethnicity in the United States	CHICLA/ SPANISH 467	US Latino Literature
SPANISH 206	First Semester Spanish for Spanish Speakers	CHICLA/ SPANISH 469	Topics in Latinx Culture
SPANISH 207	Second Semester Spanish for Native or Heritage Spanish Speakers	CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
<b>Complete at least 9 credits of advanced courses:</b>		CHICLA/ LAND ARC 475	Latino Urbanism: Design and Engagement in the American City
CHICLA 301	Chicana/o and Latina/o History	CHICLA/ SPANISH 478	Border and Race Studies in Latin America
CHICLA/ POLI SCI 302	Mexican-American Politics	CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.
CHICLA/ CURRIC 306	Latinx Literacies	CHICLA 520	Latinx Digital Publics
CHICLA/ GEN&WS/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism	CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services
CHICLA 315	Racial Formation and Whiteness	CHICLA 530	Advanced Topics in Chicana/o and Latina/o Studies
CHICLA/ CURRIC 321	Chicano/Latino Educational Justice	CHICLA 699	Directed Study <sup>1</sup>
CHICLA 328	Cultures and Histories Topics in Chicana/o & Latina/o Studies	GEN&WS/ PORTUG 460	Carmen Miranda
CHICLA 329	Education and Service Topics in Chicana/o & Latina/o Studies	HDFS 474	Racial Ethnic Families in the U.S.
CHICLA 330	Topics in Chicano/a Studies	<b>Total Credits</b> <b>15</b>	
		<b>1</b>	
		A maximum of 3 credits earned through a directed study course (CHICLA 699) can count toward the certificate.	
		Pass/Fail courses don't count for the certificate.	

## RESIDENCE AND QUALITY OF WORK

- 8 credits in CHICLA or credits counting toward the certificate, taken in residence
- A cumulative 2.000 GPA in courses counting approved for the certificate

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Identify and analyze core concepts, important social and political issues, and key artistic and cultural expressions related to Chicana/o and Latina/o life in the United States.
2. Discuss the histories of Chicanas/os and Latinas/os in the United States and their implications for contemporary problems of racialization, social stratification, colonialism, and oppression.
3. Describe the commonalities and differences among Chicanas/os and Latinas/os along lines of class, gender, race, sexuality, citizenship, and national origin, and evaluate Latinidad as a pan-ethnic category in the United States.
4. Analyze relations between Chicanas/os and Latinas/os in the United States and their countries of heritage from a transnational and transborder perspective.
5. Apply ideas from Chicana/o and Latina/o Studies to concrete problems through service-learning and community-based research, in a spirit of dialogue and reciprocal exchange informed by ethical and social justice principles.

### ADVISING AND CAREERS

An undergraduate certificate in Chican@ and Latin@ studies is available for those students from any undergraduate major who wish to pursue Chican@ and Latin@ studies courses in a systematic manner. Academic advising for the CLS certificate is available in the Student Advising Office, 307 Ingraham Hall. Prospective and current certificate students must make an appointment with Rachelle Eilers, [reilers@wisc.edu](mailto:reilers@wisc.edu), to discuss requirements, courses, and application to the certificate. CLS certificate recipients have enjoyed great success in fields including the health professions, social service, education, law, journalism, business, the arts, politics, and government service.

## L&S CAREER RESOURCES

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

For a detailed list of faculty, please see the department website (<https://chicla.wisc.edu/chican-latin-studies-professors/>).

## CLASSICAL AND ANCIENT NEAR EASTERN STUDIES

The widespread influence of Greece and Rome upon our own modern society, the intrinsic attraction of ancient literature, civilization, and material culture, and the interdisciplinary nature of the discipline make classics a dynamic and popular field of study. Moreover, undergraduate training in classics demands an intellectual rigor that can prepare students for more advanced training in graduate school, supplement their studies in a variety of other disciplines in the humanities, sciences, and engineering, and help them gain admittance to professional programs in law and medicine.

To this end, the Department of Classical and Ancient Near Eastern Studies (CANES) offers three majors and a certificate, providing a number of options for students wishing to explore their interests in classical studies. The classical humanities major combines two semesters of language study with elective coursework in literature and culture of the ancient world. Students choose from a wide-variety of courses, including everything from CLASSICS 150 Ancient Greek and Roman Monsters to CLASSICS 308 Sex and Violence in the Ancient Near East. Students will also find offerings in art, architecture, archaeology, gender studies, history, literature, philosophy, and politics.

Latin and ancient Greek are regularly offered and provide the foundation for modern English vocabulary, giving context and insight into the history of the words we use today. Class sizes are small, making the experience

more personal and creating opportunities for meaningful learning outcomes.

The department offers the classical studies certificate as well. This 15-credit certificate is designed with maximum flexibility in mind! Coursework may be made up of literature and culture options only, or some combination of language coursework may be included.

For more information about any of these options, please contact the CANES department (<http://canes.wisc.edu/>).

## DEGREES/MAJORS/CERTIFICATES

- Classical Humanities, B.A. (p. 604)
- Classical Humanities, B.S. (p. 610)
- Classical Studies, Certificate (p. 615)
- Classics, B.A. (p. 617)
- Classics, B.S. (p. 621)
- Latin, B.A. (p. 625)
- Latin, B.S. (p. 628)

## PEOPLE

Please visit the Classical and Ancient Near Eastern Studies website (<https://canes.wisc.edu/people/faculty-and-staff/>) (<http://guide.wisc.edu/undergraduate/letters-science/classics-ancient-near-eastern-studies/canes.wisc.edu>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following opportunities for financial support to our majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is open to majors only. The call usually goes out in November and closes in February.

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### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

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To support classical humanities majors as they pursue their educational goals, CANES provides annual scholarship opportunities. We also offer a summer study abroad program led by members of our faculty. Learn more under "Resources and Scholarships."

## HOW TO GET IN

### DECLARING THE MAJOR

Declare the Classical Humanities major by contacting [advising@canes.wisc.edu](mailto:advising@canes.wisc.edu)

Students who declare the Classical Humanities major may not combine this major ("double major") with the Classics or Latin major starting Fall 2023. The major may also not be combined with the Certificate in Classical Studies at the Undergraduate Level.

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- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The Classical Humanities major consists of a combination of courses in ancient culture and classical languages. The major requirements are divided into three areas: Language, Literature and Culture, and Seminar.

The major requires a minimum of 28 credits and the specific requirements include:

#### LANGUAGE

Complete one of the following:

Code	Title	Credits
2 semesters of Greek		8 credits
GREEK 103 & GREEK 104	First Semester Ancient Greek and Second Semester Ancient Greek	
2 semesters of Latin		8 credits
LATIN 103 & LATIN 104	First Semester Latin and Second Semester Latin	
1 semester of accelerated Latin		4 credits
LATIN 391	Elementary Intensive Latin	
2 semesters of Biblical Hebrew		8 credits

HEBR-BIB 103 Elementary Biblical Hebrew, I  
& HEBR-BIB 104 and Elementary Biblical Hebrew, II

## LITERATURE AND CULTURE

21 credits as follows:

Code	Title	Credits
<b>Intermediate/Advanced Literature and Culture 12</b>		
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	
CLASSICS 308	Sex and Violence in the Ancient Near East	
CLASSICS 320	The Greeks	
CLASSICS 321	The Egyptians: History, Society, and Literature	
CLASSICS 322	The Romans	
CLASSICS 330	Ancient Epic	
CLASSICS/ HEBR-BIB/ JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
CLASSICS/ JEWISH/ RELIG ST 335	King David in History and Tradition	
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	
CLASSICS/ JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	
CLASSICS/ GEN&WS 351	Women and Gender in the Classical World	
CLASSICS/ GEN&WS 361	Sex and Power in Greece and Rome	
CLASSICS 371	Topics in Greek Culture	
CLASSICS 372	Topics in Roman Culture	
CLASSICS 373	Topics in Classical Culture	
CLASSICS 420	Ancient Texts, Modern Contexts	
CLASSICS 430	Topics in Classical Archaeology	
CLASSICS/ JEWISH 451	Biblical Archaeology	
CLASSICS/ ENVIR ST 488	Greeks, Romans and the Natural Environment	
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	
CLASSICS 523	Palmyra and the Palmyrenes	
CLASSICS 681	Senior Honors Thesis	
CLASSICS 691	Senior Thesis	
CLASSICS 699	Directed Reading	
GREEK 305	Third Semester Ancient Greek	
GREEK 306	Fourth Semester Ancient Greek	
GREEK 401	Readings in Greek Literature	
GREEK 505	Elementary Prose Composition	

GREEK 510	Homer
GREEK 511	Hesiod
GREEK 512	Greek Lyric Poets
GREEK 520	Greek Comedy
GREEK 521	Greek Tragedy
GREEK 530	Herodotus
GREEK 532	Thucydides
GREEK 541	Greek Philosophical Writers
GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek
GREEK 681	Honors Thesis
GREEK 691	Senior Thesis
GREEK 699	Directed Study
HEBR-BIB 323	Intermediate Biblical Hebrew, I
HEBR-BIB 324	Intermediate Biblical Hebrew, II
LATIN 305	Third Semester Latin
LATIN 306	Fourth Semester Latin
LATIN 401	Readings in Latin Literature
LATIN 505	Elementary Prose Composition
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIIEVAL 563	Mediaeval Latin
LATIN 681	Honors Thesis
LATIN 691	Senior Thesis
LATIN 699	Directed Study
ART HIST 301	Myths, Loves, and Lives in Greek Vases
ART HIST 302	Greek Sculpture
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 505	Proseminar in Ancient Art
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500
HISTORY 303	A History of Greek Civilization
HISTORY 307	A History of Rome
HIST SCI/ MEDIIEVAL 322	Ancient and Medieval Science
PHILOS 430	History of Ancient Philosophy
PHILOS 454	Classical Philosophers

### Literature and Culture Electives

CLASSICS 100	Legacy of Greece and Rome in Modern Culture
CLASSICS/ HISTORY 110	The Ancient Mediterranean
CLASSICS 150	Ancient Greek and Roman Monsters
CLASSICS 205	Greek and Latin Origins of Medical Terms
CLASSICS 206	Classical Influences on Western Art and Science
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology
CLASSICS 270	Classical Mythology
GREEK 103	First Semester Ancient Greek
GREEK 104	Second Semester Ancient Greek
HEBR-BIB 103	Elementary Biblical Hebrew, I
HEBR-BIB 104	Elementary Biblical Hebrew, II
LATIN 103	First Semester Latin
LATIN 104	Second Semester Latin
LATIN 391	Elementary Intensive Latin
AN SCI 240	Ancient Animals and Peoples
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals
HISTORY 111	Culture & Society in the Ancient Mediterranean
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)
ILS 203	Western Culture: Literature and the Arts I
ILS 205	Western Culture: Political, Economic, and Social Thought I
POLI SCI 265	Development of Ancient and Medieval Western Political Thought

**Total Credits** **21**

## SEMINAR

Code	Title	Credits
<b>1 course from the following:</b>		<b>3</b>
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World <sup>1</sup>	
CLASSICS 682	Senior Honors Thesis	
CLASSICS 692	Senior Thesis	
GREEK 505	Elementary Prose Composition	
GREEK 510	Homer	
GREEK 511	Hesiod	
GREEK 512	Greek Lyric Poets	
GREEK 520	Greek Comedy	
GREEK 521	Greek Tragedy	
GREEK 530	Herodotus	
GREEK 532	Thucydides	
GREEK 541	Greek Philosophical Writers	

GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek
GREEK 682	Senior Honors Thesis
GREEK 692	Senior Thesis
LATIN 505	Elementary Prose Composition
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIEVAL 563	Mediaeval Latin
LATIN 682	Senior Honors Thesis
LATIN 692	Senior Thesis

**Total Credits** **3**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CLASSICS, GREEK, HEBR-BIB, and LATIN courses and all other courses in the major
- 2.000 GPA in 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in CLASSICS, GREEK, and LATIN, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Classical Humanities Major in consultation with the Classical Humanities undergraduate advisor.

## HONORS IN THE MAJOR IN CLASSICAL HUMANITIES: REQUIREMENTS

To earn Honors in the Major in Classical Humanities, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all CLASSICS, GREEK, HEBR-BIB, and LATIN courses, and all courses accepted in the major, at the upper-level
- Complete the following coursework:
  - 9 credits, taken for Honors, with a grade of B or better, from the list of Literature and Culture requirements above
  - A two-semester Senior Honors Thesis in CLASSICS 681 and CLASSICS 682, for a total of 6 credits

## FOOTNOTES

1

CLASSICS 591 is typically offered every spring semester; it is normally taken senior year.

## 2

Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate knowledge of ancient Greek, Roman, and Near Eastern societies and cultures.
2. Demonstrate competence in the critical methodologies of textual and material analysis with a view to social and cultural interpretation.
3. Compare and critique ancient Greek, Roman, and Near Eastern societies and cultures to demonstrate intercultural competence and ethical reasoning.
4. Create new knowledge in ancient Greek, Roman, or Near Eastern studies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LATIN 103 or GREEK 103	4	LATIN 104, GREEK 104, or LATIN 391 <sup>1</sup>	4
One CLASSICS or related course at Elementary level	3	One CLASSICS or related course at Elementary level	3

Communication Part A (complete during first year)	3	Quantitative Reasoning Part A (complete during first year)	4
Biological Science Breadth	4	Ethnic Studies	3
<b>14</b>		<b>14</b>	

#### Second Year

Fall	Credits	Spring	Credits
CLASSICS 320 or 322 <sup>2</sup>	3	One CLASSICS or related course at Intermediate level	3
Physical Science Breadth	4	Quantitative Reasoning B	4
Social Science Breadth	3	Social Science Breadth	3
Continue language study for BA/BS OR Elective	3	Continue language study for BA OR Elective	3
Elective	3	Elective	3
<b>16</b>		<b>16</b>	

#### Third Year

Fall	Credits	Spring	Credits
One CLASSICS or related course at Intermediate level	3	One CLASSICS or related course at Intermediate level	3
Social Science Breadth	3	Social Science Breadth	3
Science Breadth	3	Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
One CLASSICS or related course at Intermediate level	3	CLASSICS 591	3
Electives	12	Electives	12
<b>15</b>		<b>15</b>	

#### Total Credits 120

## 1

LATIN 391 Elementary Intensive Latin is an accelerated course equal to LATIN 103 First Semester Latin and LATIN 104 Second Semester Latin combined

## 2

Fulfills Communication Part B & L&S Literature Breadth requirement

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Ancient Greek and Roman Monsters* and *Sex and Violence in the Ancient Near East* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses



might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

## CAREERS

Humanities majors enable students to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- proper research design and methodology
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is language acquisition. Study of ancient Greek, Latin, or Biblical Hebrew sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career! Visit our Alumni page (<https://canes.wisc.edu/people/alumni/>) and our Career and Skill Development page (<https://canes.wisc.edu/undergraduate-studies/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
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## PEOPLE

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- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

- |             |   |
|-------------|---|
| Mathematics | Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement. |
|-------------|---|

Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The Classical Humanities major consists of a combination of courses in ancient culture and classical languages. The major requirements are divided into three areas: Language, Literature and Culture, and Seminar.

The major requires a minimum of 28 credits and the specific requirements include:

### LANGUAGE

Complete one of the following:

Code	Title	Credits
2 semesters of Greek		8 credits
GREEK 103 & GREEK 104	First Semester Ancient Greek and Second Semester Ancient Greek	
2 semesters of Latin		8 credits
LATIN 103 & LATIN 104	First Semester Latin and Second Semester Latin	
1 semester of accelerated Latin		4 credits
LATIN 391	Elementary Intensive Latin	
2 semesters of Biblical Hebrew		8 credits
HEBR-BIB 103 & HEBR-BIB 104	Elementary Biblical Hebrew, I and Elementary Biblical Hebrew, II	

## LITERATURE AND CULTURE

21 credits as follows:

Code	Title	Credits
<b>Intermediate/Advanced Literature and Culture</b>		
<b>12</b>		
CLASSICS/ART HIST 300	The Art and Archaeology of Ancient Greece	
CLASSICS/ART HIST 304	The Art and Archaeology of Ancient Rome	
CLASSICS 308	Sex and Violence in the Ancient Near East	
CLASSICS 320	The Greeks	
CLASSICS 321	The Egyptians: History, Society, and Literature	
CLASSICS 322	The Romans	
CLASSICS 330	Ancient Epic	
CLASSICS/HEBR-BIB/JEWISH/LITTRANS/RELIG ST 332	Prophets of the Bible	
CLASSICS/JEWISH/RELIG ST 335	King David in History and Tradition	
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	
CLASSICS/JEWISH/RELIG ST 346	Jewish Literature of the Greco-Roman Period	
CLASSICS/GEN&WS 351	Women and Gender in the Classical World	
CLASSICS/GEN&WS 361	Sex and Power in Greece and Rome	
CLASSICS 371	Topics in Greek Culture	
CLASSICS 372	Topics in Roman Culture	
CLASSICS 373	Topics in Classical Culture	
CLASSICS 420	Ancient Texts, Modern Contexts	
CLASSICS 430	Topics in Classical Archaeology	
CLASSICS/JEWISH 451	Biblical Archaeology	
CLASSICS/ENVIR ST 488	Greeks, Romans and the Natural Environment	
CLASSICS/HISTORY/RELIG ST 517	Religions of the Ancient Mediterranean	
CLASSICS 523	Palmyra and the Palmyrenes	
CLASSICS 681	Senior Honors Thesis	
CLASSICS 691	Senior Thesis	
CLASSICS 699	Directed Reading	
GREEK 305	Third Semester Ancient Greek	
GREEK 306	Fourth Semester Ancient Greek	
GREEK 401	Readings in Greek Literature	
GREEK 505	Elementary Prose Composition	
GREEK 510	Homer	
GREEK 511	Hesiod	

GREEK 512	Greek Lyric Poets
GREEK 520	Greek Comedy
GREEK 521	Greek Tragedy
GREEK 530	Herodotus
GREEK 532	Thucydides
GREEK 541	Greek Philosophical Writers
GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek
GREEK 681	Honors Thesis
GREEK 691	Senior Thesis
GREEK 699	Directed Study
HEBR-BIB 323	Intermediate Biblical Hebrew, I
HEBR-BIB 324	Intermediate Biblical Hebrew, II
LATIN 305	Third Semester Latin
LATIN 306	Fourth Semester Latin
LATIN 401	Readings in Latin Literature
LATIN 505	Elementary Prose Composition
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIEVAL 563	Mediaeval Latin
LATIN 681	Honors Thesis
LATIN 691	Senior Thesis
LATIN 699	Directed Study
ART HIST 301	Myths, Loves, and Lives in Greek Vases
ART HIST 302	Greek Sculpture
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453
ART HIST 405	Cities and Sanctuaries of Ancient Greece
ART HIST 505	Proseminar in Ancient Art
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500
HISTORY 303	A History of Greek Civilization
HISTORY 307	A History of Rome
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science
PHILOS 430	History of Ancient Philosophy
PHILOS 454	Classical Philosophers

**Literature and Culture Electives** **9**

CLASSICS 100	Legacy of Greece and Rome in Modern Culture
CLASSICS/ HISTORY 110	The Ancient Mediterranean

CLASSICS 150	Ancient Greek and Roman Monsters
CLASSICS 205	Greek and Latin Origins of Medical Terms
CLASSICS 206	Classical Influences on Western Art and Science
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology
CLASSICS 270	Classical Mythology
GREEK 103	First Semester Ancient Greek
GREEK 104	Second Semester Ancient Greek
HEBR-BIB 103	Elementary Biblical Hebrew, I
HEBR-BIB 104	Elementary Biblical Hebrew, II
LATIN 103	First Semester Latin
LATIN 104	Second Semester Latin
LATIN 391	Elementary Intensive Latin
AN SCI 240	Ancient Animals and Peoples
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals
HISTORY 111	Culture & Society in the Ancient Mediterranean
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)
ILS 203	Western Culture: Literature and the Arts I
ILS 205	Western Culture: Political, Economic, and Social Thought I
POLI SCI 265	Development of Ancient and Medieval Western Political Thought

**Total Credits** **21****SEMINAR**

Code	Title	Credits
<b>1 course from the following:</b>		<b>3</b>
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World <sup>1</sup>	
CLASSICS 682	Senior Honors Thesis	
CLASSICS 692	Senior Thesis	
GREEK 505	Elementary Prose Composition	
GREEK 510	Homer	
GREEK 511	Hesiod	
GREEK 512	Greek Lyric Poets	
GREEK 520	Greek Comedy	
GREEK 521	Greek Tragedy	
GREEK 530	Herodotus	
GREEK 532	Thucydides	
GREEK 541	Greek Philosophical Writers	
GREEK 551	Attic Orators	
GREEK 560	Hellenistic Greek	
GREEK 682	Senior Honors Thesis	

GREEK 692	Senior Thesis
LATIN 505	Elementary Prose Composition
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIEVAL 563	Mediaeval Latin
LATIN 682	Senior Honors Thesis
LATIN 692	Senior Thesis

**Total Credits** **3**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CLASSICS, GREEK, HEBR-BIB, and LATIN courses and all other courses in the major
- 2.000 GPA in 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in CLASSICS, GREEK, and LATIN, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Classical Humanities Major in consultation with the Classical Humanities undergraduate advisor.

### HONORS IN THE MAJOR IN CLASSICAL HUMANITIES: REQUIREMENTS

To earn Honors in the Major in Classical Humanities, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all CLASSICS, GREEK, HEBR-BIB, and LATIN courses, and all courses accepted in the major, at the upper-level
- Complete the following coursework:
  - 9 credits, taken for Honors, with a grade of B or better, from the list of Literature and Culture requirements above
  - A two-semester Senior Honors Thesis in CLASSICS 681 and CLASSICS 682, for a total of 6 credits

## FOOTNOTES

<sup>1</sup> CLASSICS 591 is typically offered every spring semester; it is normally taken senior year.

<sup>2</sup> Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate knowledge of ancient Greek, Roman, and Near Eastern societies and cultures.
2. Demonstrate competence in the critical methodologies of textual and material analysis with a view to social and cultural interpretation.
3. Compare and critique ancient Greek, Roman, and Near Eastern societies and cultures to demonstrate intercultural competence and ethical reasoning.
4. Create new knowledge in ancient Greek, Roman, or Near Eastern studies.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LATIN 103 or GREEK 103	4	LATIN 104, GREEK 104, or LATIN 391 <sup>1</sup>	4
One CLASSICS or related course at Elementary level	3	One CLASSICS or related course at Elementary level	3
Communication Part A (complete during first year)	3	Quantitative Reasoning Part A (complete during first year)	4

Biological Science Breadth	4	Ethnic Studies	3
		<b>14</b>	<b>14</b>

**Second Year**

Fall	Credits	Spring	Credits
CLASSICS 320 or 322 <sup>2</sup>	3	One CLASSICS or related course at Intermediate level	3
Physical Science Breadth	4	Quantitative Reasoning B	4
Social Science Breadth	3	Social Science Breadth	3
Continue language study for BA/BS OR Elective	3	Continue language study for BA OR Elective	3
Elective	3	Elective	3
		<b>16</b>	<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
One CLASSICS or related course at Intermediate level	3	One CLASSICS or related course at Intermediate level	3
Social Science Breadth	3	Social Science Breadth	3
Science Breadth	3	Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
		<b>15</b>	<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
One CLASSICS or related course at Intermediate level	3	CLASSICS 591	3
Electives	12	Electives	12
		<b>15</b>	<b>15</b>

**Total Credits 120**

1

LATIN 391 Elementary Intensive Latin is an accelerated course equal to LATIN 103 First Semester Latin and LATIN 104 Second Semester Latin combined

2

Fulfills Communication Part B & L&S Literature Breadth requirement

## ADVISING AND CAREERS

### ADVISING

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Ancient Greek and Roman Monsters* and *Sex and Violence in the Ancient Near East* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

## CAREERS

Humanities majors enable students to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- proper research design and methodology
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is language acquisition. Study of ancient Greek, Latin, or Biblical Hebrew sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career! Visit our Alumni page (<https://canes.wisc.edu/people/alumni/>) and our Career and Skill Development page (<https://canes.wisc.edu/undergraduate-studies/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Classical and Ancient Near Eastern Studies website (<https://canes.wisc.edu/people/faculty-and-staff/>) (<http://guide.wisc.edu/undergraduate/letters-science/classics-ancient-near-eastern-studies/classical-humanities-bs/canes.wisc.edu>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following opportunities for financial support to our majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is open to majors only. The call usually goes out in November and closes in February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896-1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, to participate in study abroad, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open to majors only. The call usually goes out in November and closes in February.

### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW-Classics in Greece and UW-Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member; students may earn 3 credits taking Classics 568: Topics in Classical Literature.

To learn more, visit our website (<https://canes.wisc.edu/undergraduate-studies/study-abroad/>).

## CLASSICAL STUDIES, CERTIFICATE

The classical studies certificate is 15 credits and allows students to explore the literature, civilization, and culture of the ancient world. Students choose from a wide-variety of courses, including everything from CLASSICS 150 Ancient Greek and Roman Monsters to CLASSICS 308 Sex and Violence in the Ancient Near East. Students will also find offerings in art, architecture, archaeology, gender studies, history, literature, philosophy, and politics. Plus, we count language courses, too! Latin and ancient Greek are regularly offered and provide the foundation for modern English vocabulary, giving context and insight into the history of the words we use today. Class sizes are small, making the experience more personal and creating opportunities for meaningful learning outcomes.

This combination of flexibility and variety are special features making the certificate attractive to students, allowing students the ability to explore their individual interests on the way to developing a more comprehensive understanding of the ancient world.

Finally, in addition to completing requirements for the certificate, many of the courses fulfill *General Education* requirements, such as Communications Part B, and *Breadth* requirements, such as Humanities and Literature.

## HOW TO GET IN

Declaring the classical studies certificate is as easy as meeting with the CANES advisor. Make an appointment using Starfish. (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>)

*Please note:* Classical humanities majors are **not** allowed to declare the certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate is 15 credits comprised of the following:

Code	Title	Credits
<b>Intermediate/Advanced Literature and Culture</b>		<b>9</b>
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	
CLASSICS 308	Sex and Violence in the Ancient Near East	
CLASSICS 320	The Greeks	
CLASSICS 321	The Egyptians: History, Society, and Literature	
CLASSICS 322	The Romans	
CLASSICS 330	Ancient Epic	
CLASSICS/ HEBR-BIB/ JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
CLASSICS/ JEWISH/ RELIG ST 335	King David in History and Tradition	
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	
CLASSICS/ JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	
CLASSICS/ GEN&WS 351	Women and Gender in the Classical World	
CLASSICS/ GEN&WS 361	Sex and Power in Greece and Rome	
CLASSICS 371	Topics in Greek Culture	
CLASSICS 372	Topics in Roman Culture	
CLASSICS 373	Topics in Classical Culture	
CLASSICS 420	Ancient Texts, Modern Contexts	
CLASSICS 430	Topics in Classical Archaeology	
CLASSICS/ JEWISH 451	Biblical Archaeology	
CLASSICS/ ENVIR ST 488	Greeks, Romans and the Natural Environment	

CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	
CLASSICS 523	Palmyra and the Palmyrenes	
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World	
CLASSICS 699	Directed Reading	
GREEK 305	Third Semester Ancient Greek	
GREEK 306	Fourth Semester Ancient Greek	
HEBR-BIB 323	Intermediate Biblical Hebrew, I	
HEBR-BIB 324	Intermediate Biblical Hebrew, II	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
LATIN 305	Third Semester Latin	
LATIN 306	Fourth Semester Latin	
LATIN 401	Readings in Latin Literature	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 505	Proseminar in Ancient Art	
HISTORY 303	A History of Greek Civilization	
HISTORY 307	A History of Rome	
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science	
PHILOS 430	History of Ancient Philosophy	
PHILOS 454	Classical Philosophers	
<b>Literature and Culture Electives</b>		<b>6</b>
CLASSICS 100	Legacy of Greece and Rome in Modern Culture	
CLASSICS/ HISTORY 110	The Ancient Mediterranean	
CLASSICS 150	Ancient Greek and Roman Monsters	
CLASSICS 205	Greek and Latin Origins of Medical Terms	
CLASSICS 206	Classical Influences on Western Art and Science	
CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
CLASSICS/ JEWISH 241	Introduction to Biblical Archaeology	
CLASSICS 270	Classical Mythology	
GREEK 103	First Semester Ancient Greek	
GREEK 104	Second Semester Ancient Greek	
HEBR-BIB 103	Elementary Biblical Hebrew, I	
HEBR-BIB 104	Elementary Biblical Hebrew, II	
LATIN 104	Second Semester Latin	
LATIN 103	First Semester Latin	
LATIN 391	Elementary Intensive Latin	
AN SCI 240	Ancient Animals and Peoples	
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	



HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500
HISTORY 223	Explorations in European History (H)
ILS 203	Western Culture: Literature and the Arts I
ILS 205	Western Culture: Political, Economic, and Social Thought I
POLI SCI 265	Development of Ancient and Medieval Western Political Thought

**Total Credits****15**

1

Courses taken Pass/Fail do not count in the certificate.

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA in all courses approved for the certificate
- At least 8 credits in the certificate, taken in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate knowledge of ancient Greek, Roman, and Near Eastern societies and cultures.
2. Demonstrate competence in the critical methodologies of textual and material analysis with a view to social and cultural interpretation.
3. Compare and critique ancient Greek, Roman, and Near Eastern societies and cultures to demonstrate intercultural competence and ethical reasoning.

## ADVISING AND CAREERS

If you like to plan, seeing your advisor is very important; it can make the difference between fitting in *Ancient Greek and Roman Monsters* and *Sex and Violence in the Ancient Near East* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities

- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career! Visit our Alumni page (<https://canes.wisc.edu/people/alumni/>) and our Career and Skill Development page (<https://canes.wisc.edu/undergraduate-studies/career-and-skill-development/>) for more information.

## PEOPLE

Please visit the Classical and Ancient Near Eastern Studies website (<https://canes.wisc.edu/people/faculty-and-staff/>) (<http://guide.wisc.edu/undergraduate/letters-science/classics-ancient-near-eastern-studies/classical-studies-certificate/canes.wisc.edu>) for a complete list of faculty, instructional, and academic staff.

## CLASSICS, B.A.

Please consult the Classical and Ancient Near Eastern Studies advisor with questions about the major in classics.

## HOW TO GET IN

## DECLARING THE MAJOR

To declare the Classics major, meet with the CANES advisor using Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

Students who declare the Classics major may not combine this major ("double major") with the Classical Humanities major starting Fall 2023.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced work Complete at least 60 credits at the intermediate or advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

A major in Classics allows students to place primary emphasis on learning Greek or Latin, yet gain some language training in both. Whether the primary language of study is Greek or Latin, the major requires 23 credits and assumes students have taken the first two semesters of both languages prior to entering the major.

### CLASSICS-LATIN EMPHASIS

Code	Title	Credits
<b>GREEK courses:</b>		
GREEK 305	Third Semester Ancient Greek	3
GREEK 306	Fourth Semester Ancient Greek	3
<b>LATIN courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
LATIN 401	Readings in Latin Literature	3
Two LATIN courses at the 500 level, select from:		6
LATIN 505	Elementary Prose Composition	
LATIN 515	Vergil	
LATIN 519	Latin Poetry	
LATIN 520	Roman Drama	
LATIN 521	Roman Elegy	
LATIN 522	Roman Lyric Poetry	
LATIN 523	Roman Satire	
LATIN 524	Roman Novel	
LATIN 539	Latin Historical Writers	
LATIN 549	Latin Philosophical Writers	
LATIN 559	Latin Oratory	
LATIN/MEDIAEVAL 563	Mediaeval Latin	
<b>Total Credits</b>		<b>23</b>

### CLASSICS-GREEK EMPHASIS

Code	Title	Credits
<b>LATIN courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
<b>GREEK courses:</b>		
GREEK 305	Third Semester Ancient Greek	3
GREEK 306	Fourth Semester Ancient Greek	3
GREEK 401	Readings in Greek Literature	3
Two GREEK courses at the 500 level, select from:		6
GREEK 505	Elementary Prose Composition	
GREEK 510	Homer	
GREEK 511	Hesiod	
GREEK 512	Greek Lyric Poets	
GREEK 520	Greek Comedy	

GREEK 521	Greek Tragedy
GREEK 530	Herodotus
GREEK 532	Thucydides
GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek

**Total Credits** **23**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CLASSICS and major courses
- 2.000 GPA in at least 15 credits of upper-level work in the major<sup>1</sup>
- 15 credits in CLASSICS, taken at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Classics Major in consultation with the Classics undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Classics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in upper-level work in the major
- Complete the following coursework, with a grade of B or better:
  - CLASSICS 591 and
  - Senior Honors Thesis (CLASSICS 681 & CLASSICS 682) for a 6 credits

## FOOTNOTES

<sup>1</sup>Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize, identify, and explain forms, syntax, and vocabulary of the classical and biblical languages.
2. Demonstrate close reading skills that emphasize accuracy and nuance in translation.
3. Demonstrate critical reading skills which emphasize textual analysis, interpretation, and evaluation.
4. Demonstrate competency with texts and authors from the classical and near eastern tradition.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LATIN 103 or GREEK 103	4	LATIN 104 or GREEK 104	4
Communication Part A (complete during first year)	3	Quantitative Reasoning A (complete during first year)	3
Physical Science Breadth	3	Ethnic Studies	3
Social Science Breadth	4	Biological Science Breadth	3
<b>14</b>		<b>13</b>	

#### Second Year

Fall	Credits	Spring	Credits
LATIN 305 or GREEK 305	4	LATIN 306 or GREEK 306	4
GREEK 103 or LATIN 103	4	GREEK 104 or LATIN 104	4
Communication Part B	3	Quantitative Reasoning Part B	3
Social Science Breadth	4	Social Science Breadth	3
Science Breadth	3	Science Breadth	3
<b>18</b>		<b>17</b>	

#### Third Year

Fall	Credits	Spring	Credits
LATIN 401	3	LATIN 500-level course	3
or GREEK 500-level course		or GREEK 500-level course	
GREEK 305 or LATIN 305	3-4	GREEK 306 or LATIN 306	3-4
Social Science Breadth	3	Elective	3
Elective	3	Elective	3

Elective	3 Elective	3
<b>15</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
500-level LATIN or GREEK course	3 Elective	3
Elective	3 Elective	3
Elective	3 Elective	3
Elective	3 Elective	3
Elective	1 Elective	3
<b>13</b>		<b>15</b>
<b>Total Credits 120</b>		

- proper research design and methodology
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is language acquisition. Study of Greek, Latin, or Biblical Hebrew sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career! Visit our Alumni page (<https://canes.wisc.edu/people/alumni/>) and our Career and Skill Development page (<https://canes.wisc.edu/undergraduate-studies/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) – a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Classical and Ancient Near Eastern Studies website (<https://canes.wisc.edu/people/faculty-and-staff/>) (<http://guide.wisc.edu/undergraduate/letters-science/classics-ancient-near-eastern-studies/classics-ba/canes.wisc.edu>) for a complete list of faculty, instructional, and academic staff.

## ADVISING AND CAREERS

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Vergil* or *Homer* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements
- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés and cover letters

## CAREERS

Humanities majors enable students to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following opportunities for financial support to our majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is open to majors only. The call usually goes out in November and closes in February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, to participate in study abroad, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open to majors only. The call usually goes out in November and closes in February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965–1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

### STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member; students may earn 3 credits taking Classics 568: Topics in Classical Literature.

To learn more, visit our website (<https://canes.wisc.edu/undergraduate-studies/study-abroad/>).

## CLASSICS, B.S.

Please consult the Classical and Ancient Near Eastern Studies advisor with questions about the major in classics.

### HOW TO GET IN

### DECLARING THE MAJOR

To declare the Classics major, meet with the CANES advisor using Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

Students who declare the Classics major may not combine this major (“double major”) with the Classical Humanities major starting Fall 2023.

### REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

A major in Classics allows students to place primary emphasis on learning Greek or Latin, yet gain some language training in both. Whether the primary language of study is Greek or Latin, the major requires 23 credits and assumes students have taken the first two semesters of both languages prior to entering the major.

### CLASSICS-LATIN EMPHASIS

Code	Title	Credits
<b>GREEK courses:</b>		
GREEK 305	Third Semester Ancient Greek	3
GREEK 306	Fourth Semester Ancient Greek	3
<b>LATIN courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
LATIN 401	Readings in Latin Literature	3
Two LATIN courses at the 500 level, select from:		6
LATIN 505	Elementary Prose Composition	
LATIN 515	Vergil	

LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry
LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
LATIN/ MEDIEVAL 563	Mediaeval Latin

**Total Credits** **23**

### CLASSICS-GREEK EMPHASIS

Code	Title	Credits
<b>LATIN courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
<b>GREEK courses:</b>		
GREEK 305	Third Semester Ancient Greek	3
GREEK 306	Fourth Semester Ancient Greek	3
GREEK 401	Readings in Greek Literature	3
Two GREEK courses at the 500 level, select from:		6
GREEK 505	Elementary Prose Composition	
GREEK 510	Homer	
GREEK 511	Hesiod	
GREEK 512	Greek Lyric Poets	
GREEK 520	Greek Comedy	
GREEK 521	Greek Tragedy	
GREEK 530	Herodotus	
GREEK 532	Thucydides	
GREEK 551	Attic Orators	
GREEK 560	Hellenistic Greek	

**Total Credits** **23**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CLASSICS and major courses
- 2.000 GPA in at least 15 credits of upper-level work in the major<sup>1</sup>
- 15 credits in CLASSICS, taken at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Classics Major in consultation with the Classics undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Classics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in upper-level work in the major
- Complete the following coursework, with a grade of B or better:

- CLASSICS 591 and
- Senior Honors Thesis (CLASSICS 681 & CLASSICS 682) for a 6 credits

## FOOTNOTES

<sup>1</sup>Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize, identify, and explain forms, syntax, and vocabulary of the classical and biblical languages.
2. Demonstrate close reading skills that emphasize accuracy and nuance in translation.
3. Demonstrate critical reading skills which emphasize textual analysis, interpretation, and evaluation.
4. Demonstrate competency with texts and authors from the classical and near eastern tradition.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LATIN 103 or GREEK 103		4 LATIN 104 or GREEK 104	4
Communication Part A (complete during first year)	3	Quantitative Reasoning A (complete during first year)	3
Physical Science Breadth		3 Ethnic Studies	3
Social Science Breadth		4 Biological Science Breadth	3
		<b>14</b>	<b>13</b>

#### Second Year

Fall	Credits	Spring	Credits
LATIN 305 or GREEK 305		4 LATIN 306 or GREEK 306	4
GREEK 103 or LATIN 103		4 GREEK 104 or LATIN 104	4
Communication Part B	3	Quantitative Reasoning Part B	3
Social Science Breadth		4 Social Science Breadth	3
Science Breadth		3 Science Breadth	3
		<b>18</b>	<b>17</b>

#### Third Year

Fall	Credits	Spring	Credits
LATIN 401		3 LATIN 500-level course	3
or GREEK 500-level course		or GREEK 500-level course	
GREEK 305 or LATIN 305		3-4 GREEK 306 or LATIN 306	3-4
Social Science Breadth		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
500-level LATIN or GREEK course		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		1 Elective	3
		<b>13</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

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## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

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A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, to participate in study abroad, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open to majors only. The call usually goes out in November and closes in February.



## LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

## PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW-Classics in Greece and UW-Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member; students may earn 3 credits taking Classics 568: Topics in Classical Literature.

To learn more, visit our website (<https://canes.wisc.edu/undergraduate-studies/study-abroad/>).

## LATIN, B.A.

Please consult the Classical and Ancient Near Eastern Studies advisor with questions about the major in Latin.

## HOW TO GET IN

## DECLARING THE MAJOR

To declare a major in Latin students should make an appointment with the CANES advisor using Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

Students who declare the Latin major may not combine this major ("double major") with the Classical Humanities major starting Fall 2023.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>Breadth—Humanities/Literature/Arts: 6 credits</li> <li>Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth—Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The Latin major requires 26 total credits from below:

Code	Title	Credits
<b>Complete all of the following courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
LATIN 401	Readings in Latin Literature	3
<b>Complete five courses from the following:</b>		<b>15</b>
LATIN 505	Elementary Prose Composition	
LATIN 515	Vergil	
LATIN 519	Latin Poetry	
LATIN 520	Roman Drama	
LATIN 521	Roman Elegy	
LATIN 522	Roman Lyric Poetry	
LATIN 523	Roman Satire	
LATIN 524	Roman Novel	
LATIN 539	Latin Historical Writers	
LATIN 549	Latin Philosophical Writers	
LATIN 559	Latin Oratory	
LATIN/ MEDIEVAL 563	Mediaeval Latin	
LATIN 681	Honors Thesis	
LATIN 682	Senior Honors Thesis	
LATIN 691	Senior Thesis	
LATIN 692	Senior Thesis	
<b>Total Credits</b>		<b>26</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LATIN and all major courses
- 2.000 GPA in 15 upper-level credits in Residence<sup>1</sup>
- 15 credits in LATIN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the CANES undergraduate advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 in all major courses at the Intermediate or Advanced level
- Complete CLASSICS 591
- Complete a two-semester Senior Honors Thesis in CLASSICS 681 and CLASSICS 682, for a total of 6 credits.

## FOOTNOTES

<sup>1</sup> Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize, identify, and explain forms, syntax, and vocabulary of the classical and biblical languages.
2. Demonstrate close reading skills that emphasize accuracy and nuance in translation.
3. Demonstrate critical reading skills which emphasize textual analysis, interpretation, and evaluation.
4. Demonstrate competency with texts and authors from the classical and near eastern tradition.

## FOUR-YEAR PLAN

## SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
LATIN 103		4 LATIN 104	4
Communication Part A (complete during first year)	3	Quantitative Reasoning Part A (complete during first year)	3
Social Science Breadth	3	Ethnic Studies	3
Biological Science Breadth	3	Social Science Breadth	3
		Elective	2
	<b>13</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
LATIN 305		4 LATIN 306	4
Communication Part B	3	Quantitative Reasoning Part B	3
Social Science Breadth	3	Social Science Breadth	3
Physical Science Breadth	3	Science Breadth	3
Elective	3	Elective	3
	<b>16</b>		<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
LATIN 401		3 500-level LATIN course <sup>2</sup>	3
Science Breadth	3	500-level LATIN course <sup>2</sup>	3
Electives	9	Electives	9
	<b>15</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
500-level LATIN course <sup>2</sup>		3 500-level LATIN course <sup>2</sup>	3
500-level LATIN course <sup>2</sup>	3	Electives	12
Electives	9		
	<b>15</b>		<b>15</b>

**Total Credits 120**

1

Fulfills L&S Literature Breadth requirement.

2

Except for LATIN 505 Elementary Prose Composition, all LATIN 500-level courses fulfill L&S Literature Breadth requirement.

## ADVISING AND CAREERS

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Vergil* or *Ovid* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

In addition to discussing the major, advisors know a lot about:

- General Education requirements
- Breadth requirements

- Interpreting university policies and deadlines
- Connecting majors to careers
- Getting involved with campus organizations
- Finding volunteer and/or internship opportunities
- Talking about your challenges and difficulties
- Connecting with tutors
- Choosing a study abroad program
- Practicing for interviews
- Talking about graduate school
- Proofreading résumés a

## CAREERS

Humanities majors enable students to consider just about any type of career or educational pursuit. Our coursework builds the critical thinking and communication skills needed to succeed in careers ranging from politics and education to business and law.

Think about what you learn in a classroom setting as well as what you do each day to be a successful student; the skills you develop are equally important in the workplace:

- critical reading, reflection, and analysis
- proper research design and methodology
- expanded world view and exposure to new ideas/ways of thinking
- effective teamwork to advance a common project/purpose
- effective time-management and self-motivation to complete projects independently
- demonstrated writing proficiency in short and long essay format
- discussion and debate strategies
- broader knowledge of career and graduate-study options

One of the more significant skills CANES majors develop is language acquisition. Study of Greek, Latin, or Biblical Hebrew sets you apart and demonstrates your willingness to explore and expand your understanding of history and culture. In addition, the study of ancient languages shows discipline and perseverance. Overall, you will have a wide variety of skills and talents to start you on the path to a rewarding career! Visit our Alumni page (<https://canes.wisc.edu/people/alumni/>) and our Career and Skill Development page (<https://canes.wisc.edu/undergraduate-studies/career-and-skill-development/>) for more information.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Classical and Ancient Near Eastern Studies website (<https://canes.wisc.edu/people/faculty-and-staff/>) (<http://guide.wisc.edu/undergraduate/letters-science/classics-ancient-near-eastern-studies/latin-ba/canes.wisc.edu>) for a complete list of faculty, instructional, and academic staff.

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS AND PRIZES

In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following opportunities for financial support to our majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is open to majors only. The call usually goes out in November and closes in February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896–1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, to participate in study abroad, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open to majors only. The call usually goes out in November and closes in February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage

will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965–1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member; students may earn 3 credits taking Classics 568: Topics in Classical Literature.

To learn more, visit our website (<https://canes.wisc.edu/undergraduate-studies/study-abroad/>).

## LATIN, B.S.

Please consult the Classical and Ancient Near Eastern Studies advisor with questions about the major in Latin.

## HOW TO GET IN

### DECLARING THE MAJOR

To declare a major in Latin students should make an appointment with the CANES advisor using Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).

Students who declare the Latin major may not combine this major (“double major”) with the Classical Humanities major starting Fall 2023.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The Latin major requires 26 total credits from below:

Code	Title	Credits
<b>Complete all of the following courses:</b>		
LATIN 305	Third Semester Latin	4
LATIN 306	Fourth Semester Latin	4
LATIN 401	Readings in Latin Literature	3
<b>Complete five courses from the following:</b>		<b>15</b>
LATIN 505	Elementary Prose Composition	
LATIN 515	Vergil	
LATIN 519	Latin Poetry	
LATIN 520	Roman Drama	
LATIN 521	Roman Elegy	
LATIN 522	Roman Lyric Poetry	
LATIN 523	Roman Satire	
LATIN 524	Roman Novel	
LATIN 539	Latin Historical Writers	
LATIN 549	Latin Philosophical Writers	
LATIN 559	Latin Oratory	
LATIN/ MEDIEVAL 563	Mediaeval Latin	
LATIN 681	Honors Thesis	
LATIN 682	Senior Honors Thesis	
LATIN 691	Senior Thesis	
LATIN 692	Senior Thesis	
<b>Total Credits</b>		<b>26</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LATIN and all major courses
- 2.000 GPA in 15 upper-level credits in Residence<sup>1</sup>
- 15 credits in LATIN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the CANES undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 in all major courses at the Intermediate or Advanced level
- Complete CLASSICS 591
- Complete a two-semester Senior Honors Thesis in CLASSICS 681 and CLASSICS 682, for a total of 6 credits.

## FOOTNOTES

<sup>1</sup> Courses at the Intermediate and Advanced levels are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize, identify, and explain forms, syntax, and vocabulary of the classical and biblical languages.
2. Demonstrate close reading skills that emphasize accuracy and nuance in translation.
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## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LATIN 103	4	LATIN 104	4
Communication Part A (complete during first year)	3	Quantitative Reasoning Part A (complete during first year)	3
Social Science Breadth	3	Ethnic Studies	3
Biological Science Breadth	3	Social Science Breadth	3
		Elective	2
	<b>13</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
LATIN 305	4	LATIN 306	4
Communication Part B	3	Quantitative Reasoning Part B	3
Social Science Breadth	3	Social Science Breadth	3
Physical Science Breadth	3	Science Breadth	3
Elective	3	Elective	3
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
LATIN 401	3	500-level LATIN course <sup>2</sup>	3
Science Breadth	3	500-level LATIN course <sup>2</sup>	3
Electives	9	Electives	9
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
500-level LATIN course <sup>2</sup>	3	500-level LATIN course <sup>2</sup>	3
500-level LATIN course <sup>2</sup>	3	Electives	12
Electives	9		
	<b>15</b>		<b>15</b>

#### Total Credits 120

1

Fulfills L&S Literature Breadth requirement.

2

Except for LATIN 505 Elementary Prose Composition, all LATIN 500-level courses fulfill L&S Literature Breadth requirement.

## ADVISING AND CAREERS

If you like to plan, seeing your major advisor is very important; it can make the difference between fitting in *Vergil* or *Ovid* before you graduate. Many students also try to complete more than one major or certificate, and discussing how you might be able to reach this goal is another primary role of your major advisor. Advisors can speak to you about course content, which courses fit best with your interest areas, and what kinds of courses might work best with your learning style. Any and all of these discussions can occur during your advising appointment.

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- critical reading, reflection, and analysis
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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

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In addition to routinely nominating or recommending exemplary undergraduate majors for national, regional, local and university awards, CANES offers the following opportunities for financial support to our majors annually:

#### RUTH M. KUHLMAN UNDERGRADUATE SCHOLARSHIP

Established in 1998 with a bequest from Myron George Kuhlman in memory of his wife, Ruth Miller Kuhlman (BS in Education '32), this is a monetary award for undergraduates to benefit and advance their studies within the field of classics. Total amount of award may be up to \$2500 and the award may not be granted every academic year depending on quality of entries and availability of funds. This competition is open to majors only. The call usually goes out in November and closes in February.

#### GERTRUDE E. SLAUGHTER SUMMER STUDY SCHOLARSHIP

A monetary award in memory of Gertrude E. Slaughter, author and widow of Professor Moses S. Slaughter 1896-1923, for undergraduate students to advance their studies at an accredited center such as the American School in Athens or the American Academy in Rome, to participate in study abroad, or to participate in an active archaeological field project. Awards will be in the amount of up to \$800. This competition is open to majors only. The call usually goes out in November and closes in February.

#### LOGAN PRIZE FOR GREEK TRANSLATION

A monetary award in memory of Fellow of Classics, John Watson Logan (Ph.D. '23), for the translation of a passage of ancient Greek. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed at least one semester of ancient Greek and is normally publicized in classes and to department majors in early April.

#### PILLINGER PRIZE FOR LATIN TRANSLATION

A monetary award in memory of Assistant Professor Hugh Edward Pillinger (1965-1970) for the translation of a passage in Latin. The passage will be selected each year by the chair of the Prize Committee and awards may not be granted every academic year depending on quality of entries. This competition is open to all undergraduate students who have completed

at least one semester of Latin and is normally publicized in classes and to department majors in early April.

## STUDY ABROAD

CANES offers two options for summer study: UW–Classics in Greece and UW–Classics in Italy.

Each three-week program is offered alternating summers and guided by a department faculty member; students may earn 3 credits taking Classics 568: Topics in Classical Literature.

To learn more, visit our website (<https://canes.wisc.edu/undergraduate-studies/study-abroad/>).

## COMMUNICATION ARTS

The communication arts major offers a liberal arts approach to studying communication. The value of the liberal arts approach is that students not only learn specific skills, they also gain a deep understanding of communication theory, history, research, and criticism. Majors learn to apply communication principles in different contexts and with a variety of different media. As a result, the communication arts major prepares students for a wide range of jobs and careers, including those that don't exist yet.

Courses in communication arts deal with a diverse range of communication-related topics and approach them from a variety of theoretical, practical, and aesthetic perspectives. The curriculum is designed to foster an understanding of communication processes, improve communication and digital literacy skills, and develop the capacity for critical appraisal and reflection.

The Department of Communication Arts offers two concentrations in the major:

1. **Communication Science and Rhetorical Studies:** Students explore the social, psychological, and practical aspects of communication and human behavior with a focus on public, mass, online, organizational, group, and interpersonal communication.
2. **Radio–Television–Film:** Students explore the history, theory, criticism, cultural uses, and production practices of television, film, radio, and digital media.

## DIGITAL CINEMA PRODUCTION CERTIFICATE

The digital cinema production certificate is tailored specifically for students interested in media creation, including film, television, documentary, and internet-based media. See the Digital Cinema Production (p. 655) section in this Guide for requirements and course options.

## DIGITAL STUDIES CERTIFICATE

The digital studies certificate allows students seeking more experience with digital media and other technologies to select courses from across several departments, including communication arts, to create their own individualized digital curriculum. See the Digital Studies (p. 656) section in this Guide for requirements and course options.

## DEGREES/MAJORS/CERTIFICATES

- Communication Arts, B.A. (p. 632)
- Communication Arts, B.S. (p. 644)
- Digital Cinema Production, Certificate (p. 655)
- Digital Studies, Certificate (p. 656)

## PEOPLE

Please see the People (<https://commarts.wisc.edu/people/>) section of the Department of Communication Arts website for additional information.

## FACULTY

### COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Robert Asen, Professor; Anirban Baishya, Assistant Professor; Robert Glenn Howard, Professor; Jenell Johnson, Professor; Marie–Louise Mares, Professor; Sara McKinnon, Professor; Zhongdang Pan, Professor; Allison Prash, Assistant Professor; Catalina Toma, Professor; Lyn Van Swol, Professor; Lillie Williamson, Assistant Professor; Susan Zaeske, Associate Dean and Professor

### RADIO–TELEVISION–FILM

Kelley Conway, Professor; Jonathan Gray, Professor; Aaron Greer, Associate Professor; Eric Hoyt, Professor; Derek Johnson, Professor; Jason Lopez, Assistant Professor; Lori Lopez, Professor; Darshana Mini, Assistant Professor; Jeremy Morris, Associate Professor; Ben Singer, Associate Professor; Jeff Smith, Professor

## INSTRUCTIONAL STAFF

Erik Gunneson, Teaching Faculty II; Sarah Jedd, Teaching Faculty III; Mary McCoy, Teaching Faculty II

## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor; Mary Rossa, Academic Advising Manager

## CAREER ADVISING

Pam Garcia–Rivera, Career Development Manager

## COMMUNICATION ARTS, B.A.

The communication arts major offers a liberal arts approach to studying communication. The value of the liberal arts approach is that students not only learn specific skills, they also gain a deep understanding of communication theory, history, research, and criticism. Majors learn to apply communication principles in different contexts and with a variety of different media. As a result, the communication arts major prepares students for a wide range of jobs and careers, including those that don't exist yet.

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2. **Radio–Television–Film:** Students explore the history, theory, criticism, cultural uses, and production practices of television, film, radio, and digital media.

## HOW TO GET IN

### DECLARING THE MAJOR

The Communication Arts major does not have an admission requirement. Students interested in pursuing the major are encouraged to meet with a Communication Arts academic advisor. Please see the Communication Arts website (<https://commarts.wisc.edu/undergraduate/declaring/>) for instructions on how to declare the major.

Students may declare only one option in the major: Communication Science and Rhetorical Studies or Radio–Television–Film.

Non–Letters & Science students will need permission from their school or college to pursue an additional major in Communication Arts.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

<b>Foreign Language</b>	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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<b>L&amp;S Breadth</b>	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
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<b>Depth of Intermediate/Advanced work</b>	Complete at least 60 credits at the intermediate or advanced level.
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<b>Major</b>	Declare and complete at least one major.
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<b>Total Credits</b>	Complete at least 120 credits.
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<b>UW–Madison Experience</b>	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Communication Arts offers two options within the major:

- Communication Science and Rhetorical Studies
- Radio–Television–Film

Students declare one of the two options and complete a minimum of 10 courses and at least 30 credits in the major. Please note that COM ARTS

courses numbered below 200 as well as COM ARTS 605, COM ARTS 614, and COM ARTS 615 do not count in the major.

## STUDENTS MUST SELECT ONE OF THE FOLLOWING OPTIONS:

View as listView as grid

- COMMUNICATION ARTS: COMMUNICATION SCIENCE AND RHETORICAL STUDIES (P. 636)
- COMMUNICATION ARTS: RADIO-TELEVISION-FILM (P. 640)

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in all COM ARTS and major courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the COM ARTS major, in residence. (Upper-level in the COM ARTS major includes courses at the intermediate or advanced level).
- 15 credits of COM ARTS major courses (200-699) taken on the UW-Madison campus.

## HONORS IN THE MAJOR IN COMMUNICATION ARTS

Students may apply to pursue Honors in the Communication Arts major in consultation with a Communication Arts undergraduate advisor. To be accepted students must have:

- Completed the fundamentals course and the two core courses for their declared option and
- Earned a minimum 3.500 GPA in all COM ARTS courses

## HONORS IN THE COMMUNICATION ARTS MAJOR REQUIREMENTS

To earn Honors in the Major in Communication Arts, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Minimum 3.300 University GPA
- Minimum 3.500 GPA for all COM ARTS major courses
- Complete the requirements for the declared major option, to include:
  - All theory, history, criticism courses taken to meet the regular major requirements within the declared option must be 400 level or higher.
  - One additional theory, history, criticism course at the 400 level or higher.
  - Three theory, history and criticism courses must be completed on campus.
  - A two-semester senior honors thesis in COM ARTS 681 and COM ARTS 682, for a total of 6 credits.<sup>1</sup>

## FOOTNOTES

1

Submission and approval of a Senior Honors Thesis Proposal is required prior to the term in which students enroll for COM ARTS 681 Senior Honors Thesis. See the Communication Arts undergraduate advisor for current process. Approval of the completed thesis by the thesis advisor and a second Communication Arts faculty member is required.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Explain core content in either of the two tracks: Communication Science and Rhetorical Studies or Radio-TV-Film.
2. Analyze communication from theoretical, historical, and critical perspectives.
3. Communicate effectively in writing, orally, or via the creation of media content.
4. Participate in communication practices that support diversity, equity, and inclusion for the historically marginalized.

## FOUR-YEAR PLAN

Please see any of the Named Options for a four-year plan.

## ADVISING AND CAREERS

## COMMUNICATION ARTS ACADEMIC ADVISING

Communication arts academic advisors (<https://commarts.wisc.edu/undergraduate/advising/>) assist students throughout their undergraduate studies. Please see the Communication Arts website (<https://commarts.wisc.edu/undergraduate/advising/>) for advising options.

## CONTACT INFORMATION:

Steffie Halverson, 6114 Vilas Hall, 608-262-2285, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

Mary Rossa, 6068 Vilas Hall, 608-262-0992, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

## COMMUNICATION ARTS COURSES

The Communication Arts Department offers a wide array of courses. All the courses listed in the Guide are not offered each semester. Please see Course Search and Enroll for current course offerings.

## CAREER ADVISING

The communication and media career advisor (<https://commarts.wisc.edu/undergraduate/careers/>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters.

## CONTACT INFORMATION:

Pam Garcia-Rivera, 5114 Vilas Hall, 608-890-1046, [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu)

## CAREER EXPLORATION AND PREPARATION GAIN EXPERIENCE

The Department of Communication Arts encourages students to apply the knowledge and skills they attain through coursework to professional settings. Internships and part-time jobs at television networks, nonprofit organizations, talent agencies, magazines, radio stations, advertising agencies, production companies, government agencies, and other communication-related businesses help students gain work-related experience and explore career options. Advising emails and postings provide communication arts majors with information on opportunities across the country.

Communication arts offers a one-credit, online academic course to accompany a student's internship experience: COM ARTS 614 Field Experience in Communication and COM ARTS 615 Second Field Experience in Communication .

## ATTEND EVENTS

Throughout the academic year, students have the opportunity to participate in several communication-focused, career-related events.

## COMMUNICATION ARTS ALUMNI CAREERS AT A GLANCE

After completing a liberal arts education with a communication arts major, communication arts alumni pursue a variety of careers. In a recent survey, communication arts alumni were asked to provide and categorize their occupation. The results are available on the Department of Communication Arts website:

- Communication Science & Rhetorical Studies Alumni Careers (<https://commarts.wisc.edu/undergraduate/careers/>)
- Radio-Television-Film Alumni Careers (<https://commarts.wisc.edu/undergraduate/careers/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please see the People (<https://commarts.wisc.edu/people/>) section of the Department of Communication Arts website for additional information.

## FACULTY COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Robert Asen, Professor; Anirban Baishya, Assistant Professor; Robert Glenn Howard, Professor; Jenell Johnson, Professor; Marie-Louise Mares, Professor; Sara McKinnon, Professor; Zhongdang Pan, Professor; Allison Prasch, Assistant Professor; Catalina Toma, Professor; Lyn Van Swol, Professor; Lillie Williamson, Assistant Professor; Susan Zaeske, Associate Dean and Professor

## RADIO-TELEVISION-FILM

Kelley Conway, Professor; Jonathan Gray, Professor; Aaron Greer, Associate Professor; Eric Hoyt, Professor; Derek Johnson, Professor; Jason Lopez, Assistant Professor; Lori Lopez, Professor; Darshana Mini, Assistant Professor; Jeremy Morris, Associate Professor; Ben Singer, Associate Professor; Jeff Smith, Professor

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## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor; Mary Rossa, Academic Advising Manager

## CAREER ADVISING

Pam Garcia-Rivera, Career Development Manager

## WISCONSIN EXPERIENCE

## WISCONSIN EXPERIENCE STUDENT ORGANIZATIONS

UW–Madison offers many opportunities to get involved. Communication arts majors join student organizations across their areas of interest.

### Department-Affiliated Organizations:

- Communication Arts Student Association (CASA)
- Hollywood Badgers

See the Department of Communication Arts website for a sampling of other UW–Madison student organizations (<https://commarts.wisc.edu/undergraduate/student-orgs/>) that may be of interest to communication-focused students.

## STUDYING ABROAD

Communications arts majors are encouraged to look at study abroad programs and opportunities across the globe. Our students have studied in cities such as London, Rome, Tel Aviv, Prague, Galway, Sydney, Madrid, Bologna, Cape Town, Paris, Copenhagen, and Buenos Aires. When planning for their semester abroad, students should think beyond courses required for their major. Students are encouraged to take courses from a variety of subjects to satisfy requirements and elective credits for their degree.

## RESEARCH OPPORTUNITIES

Communication science research team members gain hands-on research experience. Undergraduate research assistants may learn to code and enter data, interview participants, gather and prepare research materials, run experiments, and perform other activities required to complete a research study. Reading and writing assignments related to the research activities are assigned throughout the semester. Opportunities to participate in a research team vary from semester to semester.

## RESOURCES AND SCHOLARSHIPS

## SCHOLARSHIPS

Students apply for scholarships online through Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>). The Department of Communication Arts offers the following scholarships:

- **Scott M. Broetzmann Scholarship in Communication Arts**
- **Christopher Neal Heinlein Memorial Scholarships**
- **S. Nelson and Carmella M. Nelson Scholarship**

- **Charline M. Wackman Awards for Summer Session**
- **Charline M. Wackman Awards (Fall Term)**
- **Keith Harris Wyche Memorial Scholarship**

## SUMMER INTERNSHIP FUND

The **Communication Arts Department and Alumni Summer Internship Fund** helps Communication Arts majors participate in internships with businesses or non-profit organizations.

See the scholarship (<https://commarts.wisc.edu/undergraduate/scholarships/>) and internship fund (<https://commarts.wisc.edu/undergraduate/internship-fund/>) sections of the department website for additional details and opportunities.

## COMMUNICATION ARTS: COMMUNICATION SCIENCE AND RHETORICAL STUDIES

### REQUIREMENTS

## REQUIREMENTS FOR COMMUNICATION SCIENCE AND RHETORICAL STUDIES

A minimum of 10 courses and at least 30 credits are required for the major.<sup>1</sup>

### FUNDAMENTALS

Code	Title	Credits
COM ARTS 260	Communication and Human Behavior	3

### CORE-PART ONE

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	

### CORE-PART TWO

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	

### APPLIED COMMUNICATION

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 262	Theory and Practice of Argumentation and Debate	

COM ARTS 266	Theory and Practice of Group Discussion
COM ARTS 272	Introduction to Interpersonal Communication
or COM ARTS 272	Theory and Practice of Interpersonal Communication

## THEORY-HISTORY-CRITICISM

Code	Title	Credits
<b>Complete three:</b>		<b>9</b>
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS/ GEN&WS 316	Gender and Communication	
COM ARTS 317	Rhetoric and Health	
COM ARTS 318	Introduction to Health Communication	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 373	Intercultural Communication & Rhetoric	
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	
COM ARTS 402	The Psychology of Communication	
COM ARTS 470	Contemporary Political Discourse	
COM ARTS 472	Rhetoric and Technology	
COM ARTS 476	Nature of Criticism-The Public Arts of Communication	
COM ARTS 478	Rhetoric and Power on the Internet	
COM ARTS 509	Digital Media and Political Communication	
COM ARTS 518	Communication and Health Inequalities	
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media	
COM ARTS 525	Media, Deliberation, and Public Issues	
COM ARTS 562	Theories of Deliberation and Controversy	
COM ARTS 565	Communication and Interethnic Behavior	
COM ARTS 570	Classical Rhetorical Theory	

COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 671	Communication and Social Conflict

## RADIO-TV-FILM

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 250	Survey of Contemporary Media	
COM ARTS 300	Film Comedy	
COM ARTS 313	Topics in Film and Media Studies	
COM ARTS 346	Critical Internet Studies	
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	
COM ARTS 350	Introduction to Film	
COM ARTS 351	Television Industries	
COM ARTS 352	Film History to 1960	
COM ARTS 354	Film Genres	
COM ARTS 355	Introduction to Media Production	
COM ARTS 357	History of the Animated Film	
COM ARTS 358	History of Documentary Film	
COM ARTS 359	Sports Media	
COM ARTS 375	Ethics of Entertainment Media	
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	
COM ARTS/ CHICLA 419	Latino/as and Media	
COM ARTS/ ASIAN AM 420	Asian Americans and Media	
COM ARTS/ ASIAN 443	Indian Cinema and Beyond	
COM ARTS 448	Media and National Identity	
COM ARTS 449	Sound Cultures: Podcasting and Music	
COM ARTS 450	Cultural History of Broadcasting	
COM ARTS 451	Television Criticism	
COM ARTS 454	Critical Film Analysis	
COM ARTS 455	French Film	
COM ARTS 458	Global Media Cultures	
COM ARTS 459	New Media and Society	

COM ARTS/ ITALIAN 460	Italian Film	COM ARTS/ GEN&WS 316	Gender and Communication
COM ARTS 461	Global Art Cinema	COM ARTS 317	Rhetoric and Health
COM ARTS 462	American Independent Cinema	COM ARTS 318	Introduction to Health Communication
COM ARTS 463	Avant-Garde Film	COM ARTS 325	Media and Human Behavior
COM ARTS 465	Editing and Post-production for Video and Film	COM ARTS 345	Online Communication and Personal Relationships
COM ARTS 466	Writing for Television and Film	COM ARTS 346	Critical Internet Studies
COM ARTS 467	Cinematography and Sound Recording	COM ARTS/ CHICLA 347	Race, Ethnicity, and Media
COM ARTS 468	Producing for Internet TV and Video	COM ARTS 350	Introduction to Film
COM ARTS 540	Television Genres	COM ARTS 351	Television Industries
COM ARTS 547	Digital Game Cultures	COM ARTS 352	Film History to 1960
COM ARTS 552	Contemporary Hollywood Cinema	COM ARTS 354	Film Genres
COM ARTS 556	The American Film Industry in the Era of the Studio System	COM ARTS 355	Introduction to Media Production
COM ARTS 557	Contemporary Media Industries	COM ARTS 357	History of the Animated Film
COM ARTS 608	Special Topics in Media and Cultural Studies	COM ARTS 358	History of Documentary Film
COM ARTS 609	Special Topics in Production	COM ARTS 359	Sports Media
COM ARTS 613	Special Topics in Film	COM ARTS 360	Introduction to Rhetoric in Politics and Culture
COM ARTS 651	Advanced Video Production and Direction	COM ARTS 361	Introduction to Quantitative Research in Communication
COM ARTS/ GERMAN 655	German Film	COM ARTS 368	Theory and Practice of Persuasion
COM ARTS 659	Advanced Motion Picture Production Workshop	COM ARTS 370	Great Speakers and Speeches
COM ARTS 669	Film Theory	COM ARTS 371	Communication and Conflict Resolution
<b>ELECTIVES:<sup>2</sup></b>		COM ARTS 372	Rhetoric of Campaigns and Revolutions
<b>Code</b>	<b>Title</b>	COM ARTS 373	Intercultural Communication & Rhetoric
<b>Complete two additional COM ARTS courses numbered 200–699:</b>		COM ARTS/ RELIG ST 374	The Rhetoric of Religion
COM ARTS 200	Introduction to Digital Communication	COM ARTS 375	Ethics of Entertainment Media
COM ARTS 213	Introductory Topic in Communication Arts: Study Abroad	COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)
COM ARTS 250	Survey of Contemporary Media	COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)
COM ARTS 260	Communication and Human Behavior	COM ARTS 402	The Psychology of Communication
COM ARTS 262	Theory and Practice of Argumentation and Debate	COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media
COM ARTS 266	Theory and Practice of Group Discussion	COM ARTS/ CHICLA 419	Latino/as and Media
COM ARTS 272	Introduction to Interpersonal Communication	COM ARTS/ ASIAN AM 420	Asian Americans and Media
or COM ARTS 272	Theory and Practice of Interpersonal Communication	COM ARTS/ ASIAN 443	Indian Cinema and Beyond
COM ARTS 298	Directed Study	COM ARTS/ AFRICAN/ L I S 444	Technology and Development in Africa and Beyond
COM ARTS 299	Directed Study	COM ARTS 448	Media and National Identity
COM ARTS 300	Film Comedy	COM ARTS 449	Sound Cultures: Podcasting and Music
COM ARTS 310	Topics in Rhetoric and Communication Science	COM ARTS 450	Cultural History of Broadcasting
COM ARTS 313	Topics in Film and Media Studies		

COM ARTS 451	Television Criticism
COM ARTS 454	Critical Film Analysis
COM ARTS 455	French Film
COM ARTS 458	Global Media Cultures
COM ARTS 459	New Media and Society
COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 461	Global Art Cinema
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 465	Editing and Post-production for Video and Film
COM ARTS 466	Writing for Television and Film
COM ARTS 467	Cinematography and Sound Recording
COM ARTS 468	Producing for Internet TV and Video
COM ARTS 470	Contemporary Political Discourse
COM ARTS 472	Rhetoric and Technology
COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 509	Digital Media and Political Communication
COM ARTS 513	Topics in Communication Arts: Study Abroad
COM ARTS 518	Communication and Health Inequalities
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS 562	Theories of Deliberation and Controversy
COM ARTS 565	Communication and Interethnic Behavior
COM ARTS 570	Classical Rhetorical Theory
COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 609	Special Topics in Production
COM ARTS 610	Special Topics in Rhetoric and Public Address

COM ARTS 612	Special Topics in Communication Science
COM ARTS 613	Special Topics in Film
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 651	Advanced Video Production and Direction
COM ARTS/ GERMAN 655	German Film
COM ARTS 659	Advanced Motion Picture Production Workshop
COM ARTS 669	Film Theory
COM ARTS 671	Communication and Social Conflict
COM ARTS 691	Senior Thesis
COM ARTS 692	Senior Thesis
COM ARTS 698	Directed Study
COM ARTS 699	Directed Study

## FOOTNOTES

1

A course can be applied to only one requirement within the major.

2

Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COM ARTS 100 (meets Communication A)	3	COM ARTS 260 (meets Humanities or Social Science Breadth)	3
Quantitative Reasoning A	4	Ethnic Studies	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
Elective	3	Biological Science Breadth	3
COUN PSY 125 (optional)	1	Elective	3

15

16

**Second Year**

Fall	Credits	Spring	Credits
COM ARTS 272 (meets Communication B, Social Science Breadth, and COM ARTS applied)	3	COM ARTS Core Part One (meets Humanities Breadth)	3
COM ARTS 361 (meets Quantitative Reasoning B, Social Science Breadth, and COM ARTS Core Part Two)	3	Science Breadth (Biological Science, if B.S.)	3
Physical Science Breadth	3	Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3
Literature Breadth	3	Elective	3
Elective	3	Elective	3
Declare the major		INTER-LS 210 (optional)	1
	<b>15</b>		<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism (meets Social Science Breadth)	3	COM ARTS Radio-TV-Film	3
COM ARTS Theory-History-Criticism (meets Humanities Breadth)	3	Literature Breadth	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
Science Breadth (Physical Science, if B.S.)	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
COM ARTS Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	1
	<b>15</b>		<b>13</b>

**Total Credits 120**

# COMMUNICATION ARTS: RADIO-TELEVISION-FILM

## REQUIREMENTS

### REQUIREMENTS FOR RADIO-TELEVISION-FILM

A minimum of 10 courses and at 30 credits are required for this major.<sup>1</sup>**FUNDAMENTALS**

Code	Title	Credits
COM ARTS 250	Survey of Contemporary Media	3

**RADIO-TV-FILM CORE**

Code	Title	Credits
<b>Complete two:</b>		
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3

**PRODUCTION**

Code	Title	Credits
<b>Complete one:</b>		
COM ARTS 355	Introduction to Media Production	3
COM ARTS 465	Editing and Post-production for Video and Film	3
COM ARTS 466	Writing for Television and Film	3
COM ARTS 467	Cinematography and Sound Recording	3
COM ARTS 659	Advanced Motion Picture Production Workshop	3

**THEORY-HISTORY-CRITICISM**

Code	Title	Credits
<b>Complete three:</b>		
COM ARTS 300	Film Comedy	3
COM ARTS 313	Topics in Film and Media Studies	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS/CHICLA 347	Race, Ethnicity, and Media	3
COM ARTS 352	Film History to 1960	3
COM ARTS 354	Film Genres	3
COM ARTS 357	History of the Animated Film	3
COM ARTS 358	History of Documentary Film	3
COM ARTS 359	Sports Media	3
COM ARTS 375	Ethics of Entertainment Media	3
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	3
COM ARTS/GEN&WS 418	Gender, Sexuality, and the Media	3
COM ARTS/CHICLA 419	Latino/as and Media	3
COM ARTS/ASIAN AM 420	Asian Americans and Media	3
COM ARTS/ASIAN 443	Indian Cinema and Beyond	3
COM ARTS 448	Media and National Identity	3
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 450	Cultural History of Broadcasting	3
COM ARTS 451	Television Criticism	3
COM ARTS 454	Critical Film Analysis	3
COM ARTS 455	French Film	3
COM ARTS 458	Global Media Cultures	3



COM ARTS 459	New Media and Society
COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 461	Global Art Cinema
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 613	Special Topics in Film
COM ARTS/ GERMAN 655	German Film
COM ARTS 669	Film Theory

## COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 260	Communication and Human Behavior	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
COM ARTS 272	Introduction to Interpersonal Communication	
or COM ARTS 277	Theory and Practice of Interpersonal Communication	
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS/ GEN&WS 316	Gender and Communication	
COM ARTS 317	Rhetoric and Health	
COM ARTS 318	Introduction to Health Communication	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 373	Intercultural Communication & Rhetoric	

COM ARTS/ RELIG ST 374	The Rhetoric of Religion
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)
COM ARTS 402	The Psychology of Communication
COM ARTS 470	Contemporary Political Discourse
COM ARTS 472	Rhetoric and Technology
COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 509	Digital Media and Political Communication
COM ARTS 518	Communication and Health Inequalities
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 562	Theories of Deliberation and Controversy
COM ARTS 565	Communication and Interethnic Behavior
COM ARTS 570	Classical Rhetorical Theory
COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 671	Communication and Social Conflict

## ELECTIVES <sup>2</sup>

Code	Title	Credits
<b>Complete two additional COM ARTS courses numbered 200-699:</b>		<b>6</b>
COM ARTS 200	Introduction to Digital Communication	
COM ARTS 213	Introductory Topic in Communication Arts: Study Abroad	
COM ARTS 250	Survey of Contemporary Media	
COM ARTS 260	Communication and Human Behavior	
COM ARTS 262	Theory and Practice of Argumentation and Debate	

COM ARTS 266	Theory and Practice of Group Discussion	COM ARTS/ CHICLA 419	Latino/as and Media
COM ARTS 272	Introduction to Interpersonal Communication	COM ARTS/ ASIAN AM 420	Asian Americans and Media
or COM ARTS 273	Theory and Practice of Interpersonal Communication	COM ARTS/ ASIAN 443	Indian Cinema and Beyond
COM ARTS 298	Directed Study	COM ARTS/ AFRICAN/ L I S 444	Technology and Development in Africa and Beyond
COM ARTS 299	Directed Study		
COM ARTS 300	Film Comedy		
COM ARTS 310	Topics in Rhetoric and Communication Science	COM ARTS 448	Media and National Identity
COM ARTS 313	Topics in Film and Media Studies	COM ARTS 449	Sound Cultures: Podcasting and Music
COM ARTS/ GEN&WS 316	Gender and Communication	COM ARTS 450	Cultural History of Broadcasting
COM ARTS 317	Rhetoric and Health	COM ARTS 451	Television Criticism
COM ARTS 318	Introduction to Health Communication	COM ARTS 454	Critical Film Analysis
COM ARTS 325	Media and Human Behavior	COM ARTS 455	French Film
COM ARTS 345	Online Communication and Personal Relationships	COM ARTS 458	Global Media Cultures
COM ARTS 346	Critical Internet Studies	COM ARTS 459	New Media and Society
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 350	Introduction to Film	COM ARTS 461	Global Art Cinema
COM ARTS 351	Television Industries	COM ARTS 462	American Independent Cinema
COM ARTS 352	Film History to 1960	COM ARTS 463	Avant-Garde Film
COM ARTS 354	Film Genres	COM ARTS 465	Editing and Post-production for Video and Film
COM ARTS 355	Introduction to Media Production	COM ARTS 466	Writing for Television and Film
COM ARTS 357	History of the Animated Film	COM ARTS 467	Cinematography and Sound Recording
COM ARTS 358	History of Documentary Film	COM ARTS 468	Producing for Internet TV and Video
COM ARTS 359	Sports Media	COM ARTS 470	Contemporary Political Discourse
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	COM ARTS 472	Rhetoric and Technology
COM ARTS 361	Introduction to Quantitative Research in Communication	COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 368	Theory and Practice of Persuasion	COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 370	Great Speakers and Speeches	COM ARTS 509	Digital Media and Political Communication
COM ARTS 371	Communication and Conflict Resolution	COM ARTS 513	Topics in Communication Arts: Study Abroad
COM ARTS 372	Rhetoric of Campaigns and Revolutions	COM ARTS 518	Communication and Health Inequalities
COM ARTS 373	Intercultural Communication & Rhetoric	COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 375	Ethics of Entertainment Media	COM ARTS 540	Television Genres
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	COM ARTS 547	Digital Game Cultures
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 402	The Psychology of Communication	COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	COM ARTS 557	Contemporary Media Industries
		COM ARTS 562	Theories of Deliberation and Controversy
		COM ARTS 565	Communication and Interethnic Behavior
		COM ARTS 570	Classical Rhetorical Theory

COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 609	Special Topics in Production
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS 613	Special Topics in Film
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 651	Advanced Video Production and Direction
COM ARTS/ GERMAN 655	German Film
COM ARTS 659	Advanced Motion Picture Production Workshop
COM ARTS 669	Film Theory
COM ARTS 671	Communication and Social Conflict
COM ARTS 691	Senior Thesis
COM ARTS 692	Senior Thesis
COM ARTS 698	Directed Study
COM ARTS 699	Directed Study

## FOOTNOTES

- 1**  
A course can be applied to only one requirement within the major.
- 2**  
Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COM ARTS 100 (meets Communication A)	3	COM ARTS 250 (meets Humanities Breadth)	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
Quantitative Reasoning A	4	Ethnic Studies	3
Elective	3	Biological Science Breadth	3
COUN PSY 125 (optional)	1	Elective	3
<b>15</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
COM ARTS 272 (meets Communication B, Social Science Breadth, and COM ARTS Communication Science and Rhetorical Studies)	3	COM ARTS 351	3
COM ARTS 350 (meets Humanities Breadth)	3	COM ARTS 355	4
Physical Science Breadth	3	Literature Breadth	3
Quantitative Reasoning B	3	Science Breadth (Biological Science, if B.S.)	3
Elective	3	INTER-LS 210 (optional)	1
Declare the major			
<b>15</b>		<b>14</b>	

#### Third Year

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
COM ARTS Theory-History-Criticism	3	Social Science Breadth	3
Social Science Breadth	3	Literature Breadth	3
Science Breadth (Physical Science, if B.S.)	3	Elective	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
Social Science Breadth	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 120**

## COMMUNICATION ARTS, B.S.

The communication arts major offers a liberal arts approach to studying communication. The value of the liberal arts approach is that students not only learn specific skills, they also gain a deep understanding of communication theory, history, research, and criticism. Majors learn to apply communication principles in different contexts and with a variety of different media. As a result, the communication arts major prepares students for a wide range of jobs and careers, including those that don't exist yet.

Courses in communication arts deal with a diverse range of communication-related topics and approach them from a variety of theoretical, practical, and aesthetic perspectives. The curriculum is designed to foster an understanding of communication processes, improve communication and digital literacy skills, and develop the capacity for critical appraisal and reflection.

The Department of Communication Arts offers two options in the major:

1. **Communication Science and Rhetorical Studies:** Students explore the social, psychological, and practical aspects of communication and human behavior with a focus on public, mass, online, organizational, group, and interpersonal communication.
2. **Radio–Television–Film:** Students explore the history, theory, criticism, cultural uses, and production practices of television, film, radio, and digital media.

### HOW TO GET IN

## DECLARING THE MAJOR

The Communication Arts major does not have an admission requirement. Students interested in pursuing the major are encouraged to meet with a Communication Arts academic advisor. Please see the Communication Arts website (<https://commarts.wisc.edu/undergraduate/declaring/>) for instructions on how to declare the major.

Students may declare only one option in the major: Communication Science and Rhetorical Studies or Radio–Television–Film.

Non–Letters & Science students will need permission from their school or college to pursue an additional major in Communication Arts.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

### General Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Communication Arts offers two options within the major:

- Communication Science and Rhetorical Studies
- Radio–Television–Film

Students declare one of the two options and complete a minimum of 10 courses and at least 30 credits in the major. Please note that COM ARTS courses numbered below 200 as well as COM ARTS 605, COM ARTS 614, and COM ARTS 615 do not count in the major.

### STUDENTS MUST SELECT ONE OF THE FOLLOWING OPTIONS:

View as listView as grid

- COMMUNICATION ARTS: COMMUNICATION SCIENCE AND RHETORICAL STUDIES (P. 636)
- COMMUNICATION ARTS: RADIO-TELEVISION-FILM (P. 640)

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in all COM ARTS and major courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the COM ARTS major, in residence. (Upper-level in the COM ARTS major includes courses at the intermediate or advanced level).
- 15 credits of COM ARTS major courses (200-699) taken on the UW-Madison campus.

## HONORS IN THE MAJOR IN COMMUNICATION ARTS

Students may apply to pursue Honors in the Communication Arts major in consultation with a Communication Arts undergraduate advisor. To be accepted students must have:

- Completed the fundamentals course and the two core courses for their declared option and
- Earned a minimum 3.500 GPA in all COM ARTS courses

### HONORS IN THE COMMUNICATION ARTS MAJOR REQUIREMENTS

To earn Honors in the Major in Communication Arts, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Minimum 3.300 University GPA
- Minimum 3.500 GPA for all COM ARTS major courses
- Complete the requirements for the declared major option, to include:
  - All theory, history, criticism courses taken to meet the regular major requirements within the declared option must be 400 level or higher.
  - One additional theory, history, criticism course at the 400 level or higher.

- Three theory, history and criticism courses must be completed on campus.
- A two-semester senior honors thesis in COM ARTS 681 and COM ARTS 682, for a total of 6 credits.<sup>1</sup>

## FOOTNOTES

1

Submission and approval of a Senior Honors Thesis Proposal is required prior to the term in which students enroll for COM ARTS 681 Senior Honors Thesis. See the Communication Arts undergraduate advisor for current process. Approval of the completed thesis by the thesis advisor and a second Communication Arts faculty member is required.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Explain core content in either of the two tracks: Communication Science and Rhetorical Studies or Radio-TV-Film.
2. Analyze communication from theoretical, historical, and critical perspectives.
3. Communicate effectively in writing, orally, or via the creation of media content.
4. Participate in communication practices that support diversity, equity, and inclusion for the historically marginalized.

## FOUR-YEAR PLAN

Please see any of the Named Options for a four-year plan.

## ADVISING AND CAREERS

### COMMUNICATION ARTS ACADEMIC ADVISING

Communication arts academic advisors (<https://commarts.wisc.edu/undergraduate/advising/>) assist students throughout their undergraduate

studies. Please see the Communication Arts website (<https://commarts.wisc.edu/undergraduate/advising/>) for advising options.

### CONTACT INFORMATION:

Steffie Halverson, 6114 Vilas Hall, 608-262-2285, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

Mary Rossa, 6068 Vilas Hall, 608-262-0992, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

## COMMUNICATION ARTS COURSES

The Communication Arts Department offers a wide array of courses. All the courses listed in the Guide are not offered each semester. Please see Course Search and Enroll for current course offerings.

## CAREER ADVISING

The communication and media career advisor (<https://commarts.wisc.edu/undergraduate/careers/>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters.

### CONTACT INFORMATION:

Pam Garcia-Rivera, 5114 Vilas Hall, 608-890-1046, [pgarcia@wisc.edu](mailto:pgarcia@wisc.edu)

## CAREER EXPLORATION AND PREPARATION GAIN EXPERIENCE

The Department of Communication Arts encourages students to apply the knowledge and skills they attain through coursework to professional settings. Internships and part-time jobs at television networks, nonprofit organizations, talent agencies, magazines, radio stations, advertising agencies, production companies, government agencies, and other communication-related businesses help students gain work-related experience and explore career options. Advising emails and postings provide communication arts majors with information on opportunities across the country.

Communication arts offers a one-credit, online academic course to accompany a student's internship experience: COM ARTS 614 Field Experience in Communication and COM ARTS 615 Second Field Experience in Communication .

### ATTEND EVENTS

Throughout the academic year, students have the opportunity to participate in several communication-focused, career-related events.

## COMMUNICATION ARTS ALUMNI CAREERS AT A GLANCE

After completing a liberal arts education with a communication arts major, communication arts alumni pursue a variety of careers. In a recent survey, communication arts alumni were asked to provide and categorize their occupation. The results are available on the Department of Communication Arts website:

- Communication Science & Rhetorical Studies Alumni Careers (<https://commarts.wisc.edu/undergraduate/careers/>)
- Radio-Television-Film Alumni Careers (<https://commarts.wisc.edu/undergraduate/careers/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please see the People (<https://commarts.wisc.edu/people/>) section of the Department of Communication Arts website for additional information.

## FACULTY COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Robert Asen, Professor; Anirban Baishya, Assistant Professor; Robert Glenn Howard, Professor; Jenell Johnson, Professor; Marie-Louise Mares, Professor; Sara McKinnon, Professor; Zhongdang Pan, Professor; Allison Prash, Assistant Professor; Catalina Toma, Professor; Lyn Van Swol, Professor; Lillie Williamson, Assistant Professor; Susan Zaeske, Associate Dean and Professor

## RADIO-TELEVISION-FILM

Kelley Conway, Professor; Jonathan Gray, Professor; Aaron Greer, Associate Professor; Eric Hoyt, Professor; Derek Johnson, Professor; Jason Lopez, Assistant Professor; Lori Lopez, Professor; Darshana Mini, Assistant Professor; Jeremy Morris, Associate Professor; Ben Singer, Associate Professor; Jeff Smith, Professor

## INSTRUCTIONAL STAFF

Erik Gunneson, Teaching Faculty II; Sarah Jedd, Teaching Faculty III; Mary McCoy, Teaching Faculty II

## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor; Mary Rossa, Academic Advising Manager

## CAREER ADVISING

Pam Garcia-Rivera, Career Development Manager

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE STUDENT ORGANIZATIONS

UW–Madison offers many opportunities to get involved. Communication arts majors join student organizations across their areas of interest.

#### Department-Affiliated Organizations:

- Communication Arts Student Association (CASA)
- Hollywood Badgers

See the Department of Communication Arts website for a sampling of other UW–Madison student organizations (<https://commarts.wisc.edu/undergraduate/student-orgs/>) that may be of interest to communication-focused students.

### STUDYING ABROAD

Communications arts majors are encouraged to look at study abroad programs and opportunities across the globe. Our students have studied in cities such as London, Rome, Tel Aviv, Prague, Galway, Sydney, Madrid, Bologna, Cape Town, Paris, Copenhagen, and Buenos Aires. When planning for their semester abroad, students should think beyond courses required for their major. Students are encouraged to take courses from a variety of subjects to satisfy requirements and elective credits for their degree.

### RESEARCH OPPORTUNITIES

Communication science research team members gain hands-on research experience. Undergraduate research assistants may learn to code and enter data, interview participants, gather and prepare research materials, run experiments, and perform other activities required to complete a research study. Reading and writing assignments related to the research activities are assigned throughout the semester. Opportunities to participate in a research team vary from semester to semester.

## RESOURCES AND SCHOLARSHIPS

### SCHOLARSHIPS

Students apply for scholarships online through Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>). The Department of Communication Arts offers the following scholarships:

- **Scott M. Broetzmann Scholarship in Communication Arts**
- **Christopher Neal Heinlein Memorial Scholarships**
- **S. Nelson and Carmella M. Nelson Scholarship**

- **Charline M. Wackman Awards for Summer Session**
- **Charline M. Wackman Awards (Fall Term)**
- **Keith Harris Wyche Memorial Scholarship**

## SUMMER INTERNSHIP FUND

**The Communication Arts Department and Alumni Summer Internship Fund** helps Communication Arts majors participate in internships with businesses or non-profit organizations.

See the scholarship (<https://commarts.wisc.edu/undergraduate/scholarships/>) and internship fund (<https://commarts.wisc.edu/undergraduate/internship-fund/>) sections of the department website for additional details and opportunities.

## COMMUNICATION ARTS: COMMUNICATION SCIENCE AND RHETORICAL STUDIES

### REQUIREMENTS

### REQUIREMENTS FOR COMMUNICATION SCIENCE AND RHETORICAL STUDIES

A minimum of 10 courses and at least 30 credits are required for the major.<sup>1</sup>

#### FUNDAMENTALS

Code	Title	Credits
COM ARTS 260	Communication and Human Behavior	3

#### CORE-PART ONE

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	

#### CORE-PART TWO

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	

#### APPLIED COMMUNICATION

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 262	Theory and Practice of Argumentation and Debate	

COM ARTS 266	Theory and Practice of Group Discussion
COM ARTS 272	Introduction to Interpersonal Communication
or COM ARTS 272	Theory and Practice of Interpersonal Communication

## THEORY-HISTORY-CRITICISM

Code	Title	Credits
<b>Complete three:</b>		<b>9</b>
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS/ GEN&WS 316	Gender and Communication	
COM ARTS 317	Rhetoric and Health	
COM ARTS 318	Introduction to Health Communication	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 373	Intercultural Communication & Rhetoric	
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	
COM ARTS 402	The Psychology of Communication	
COM ARTS 470	Contemporary Political Discourse	
COM ARTS 472	Rhetoric and Technology	
COM ARTS 476	Nature of Criticism-The Public Arts of Communication	
COM ARTS 478	Rhetoric and Power on the Internet	
COM ARTS 509	Digital Media and Political Communication	
COM ARTS 518	Communication and Health Inequalities	
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media	
COM ARTS 525	Media, Deliberation, and Public Issues	
COM ARTS 562	Theories of Deliberation and Controversy	
COM ARTS 565	Communication and Interethnic Behavior	
COM ARTS 570	Classical Rhetorical Theory	

COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 671	Communication and Social Conflict

## RADIO-TV-FILM

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 250	Survey of Contemporary Media	
COM ARTS 300	Film Comedy	
COM ARTS 313	Topics in Film and Media Studies	
COM ARTS 346	Critical Internet Studies	
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	
COM ARTS 350	Introduction to Film	
COM ARTS 351	Television Industries	
COM ARTS 352	Film History to 1960	
COM ARTS 354	Film Genres	
COM ARTS 355	Introduction to Media Production	
COM ARTS 357	History of the Animated Film	
COM ARTS 358	History of Documentary Film	
COM ARTS 359	Sports Media	
COM ARTS 375	Ethics of Entertainment Media	
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	
COM ARTS/ CHICLA 419	Latino/as and Media	
COM ARTS/ ASIAN AM 420	Asian Americans and Media	
COM ARTS/ ASIAN 443	Indian Cinema and Beyond	
COM ARTS 448	Media and National Identity	
COM ARTS 449	Sound Cultures: Podcasting and Music	
COM ARTS 450	Cultural History of Broadcasting	
COM ARTS 451	Television Criticism	
COM ARTS 454	Critical Film Analysis	
COM ARTS 455	French Film	
COM ARTS 458	Global Media Cultures	
COM ARTS 459	New Media and Society	



COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 461	Global Art Cinema
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 465	Editing and Post-production for Video and Film
COM ARTS 466	Writing for Television and Film
COM ARTS 467	Cinematography and Sound Recording
COM ARTS 468	Producing for Internet TV and Video
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 609	Special Topics in Production
COM ARTS 613	Special Topics in Film
COM ARTS 651	Advanced Video Production and Direction
COM ARTS/ GERMAN 655	German Film
COM ARTS 659	Advanced Motion Picture Production Workshop
COM ARTS 669	Film Theory

**ELECTIVES:** <sup>2</sup>

Code	Title	Credits
<b>Complete two additional COM ARTS courses numbered 200-699:</b>		<b>6</b>
COM ARTS 200	Introduction to Digital Communication	
COM ARTS 213	Introductory Topic in Communication Arts: Study Abroad	
COM ARTS 250	Survey of Contemporary Media	
COM ARTS 260	Communication and Human Behavior	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
COM ARTS 272	Introduction to Interpersonal Communication	
	or COM ARTS 271: Theory and Practice of Interpersonal Communication	
COM ARTS 298	Directed Study	
COM ARTS 299	Directed Study	
COM ARTS 300	Film Comedy	
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS 313	Topics in Film and Media Studies	

COM ARTS/ GEN&WS 316	Gender and Communication
COM ARTS 317	Rhetoric and Health
COM ARTS 318	Introduction to Health Communication
COM ARTS 325	Media and Human Behavior
COM ARTS 345	Online Communication and Personal Relationships
COM ARTS 346	Critical Internet Studies
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media
COM ARTS 350	Introduction to Film
COM ARTS 351	Television Industries
COM ARTS 352	Film History to 1960
COM ARTS 354	Film Genres
COM ARTS 355	Introduction to Media Production
COM ARTS 357	History of the Animated Film
COM ARTS 358	History of Documentary Film
COM ARTS 359	Sports Media
COM ARTS 360	Introduction to Rhetoric in Politics and Culture
COM ARTS 361	Introduction to Quantitative Research in Communication
COM ARTS 368	Theory and Practice of Persuasion
COM ARTS 370	Great Speakers and Speeches
COM ARTS 371	Communication and Conflict Resolution
COM ARTS 372	Rhetoric of Campaigns and Revolutions
COM ARTS 373	Intercultural Communication & Rhetoric
COM ARTS/ RELIG ST 374	The Rhetoric of Religion
COM ARTS 375	Ethics of Entertainment Media
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)
COM ARTS 402	The Psychology of Communication
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media
COM ARTS/ CHICLA 419	Latino/as and Media
COM ARTS/ ASIAN AM 420	Asian Americans and Media
COM ARTS/ ASIAN 443	Indian Cinema and Beyond
COM ARTS/ AFRICAN/ L I S 444	Technology and Development in Africa and Beyond
COM ARTS 448	Media and National Identity
COM ARTS 449	Sound Cultures: Podcasting and Music
COM ARTS 450	Cultural History of Broadcasting

COM ARTS 451	Television Criticism
COM ARTS 454	Critical Film Analysis
COM ARTS 455	French Film
COM ARTS 458	Global Media Cultures
COM ARTS 459	New Media and Society
COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 461	Global Art Cinema
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 465	Editing and Post-production for Video and Film
COM ARTS 466	Writing for Television and Film
COM ARTS 467	Cinematography and Sound Recording
COM ARTS 468	Producing for Internet TV and Video
COM ARTS 470	Contemporary Political Discourse
COM ARTS 472	Rhetoric and Technology
COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 509	Digital Media and Political Communication
COM ARTS 513	Topics in Communication Arts: Study Abroad
COM ARTS 518	Communication and Health Inequalities
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS 562	Theories of Deliberation and Controversy
COM ARTS 565	Communication and Interethnic Behavior
COM ARTS 570	Classical Rhetorical Theory
COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 609	Special Topics in Production
COM ARTS 610	Special Topics in Rhetoric and Public Address

COM ARTS 612	Special Topics in Communication Science
COM ARTS 613	Special Topics in Film
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 651	Advanced Video Production and Direction
COM ARTS/ GERMAN 655	German Film
COM ARTS 659	Advanced Motion Picture Production Workshop
COM ARTS 669	Film Theory
COM ARTS 671	Communication and Social Conflict
COM ARTS 691	Senior Thesis
COM ARTS 692	Senior Thesis
COM ARTS 698	Directed Study
COM ARTS 699	Directed Study

## FOOTNOTES

1

A course can be applied to only one requirement within the major.

2

Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COM ARTS 100 (meets Communication A)		3 COM ARTS 260 (meets Humanities or Social Science Breadth)	3
Quantitative Reasoning A		4 Ethnic Studies	3
Foreign Language (if needed)		4 Foreign Language (if needed)	4
Elective		3 Biological Science Breadth	3
COUN PSY 125 (optional)		1 Elective	3

15

16

**Second Year**

Fall	Credits	Spring	Credits
COM ARTS 272 (meets Communication B, Social Science Breadth, and COM ARTS applied)	3	COM ARTS Core Part One (meets Humanities Breadth)	3
COM ARTS 361 (meets Quantitative Reasoning B, Social Science Breadth, and COM ARTS Core Part Two)	3	Science Breadth (Biological Science, if B.S.)	3
Physical Science Breadth	3	Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3
Literature Breadth	3	Elective	3
Elective	3	Elective	3
Declare the major		INTER-LS 210 (optional)	1
<b>15</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism (meets Social Science Breadth)	3	COM ARTS Radio-TV-Film	3
COM ARTS Theory-History-Criticism (meets Humanities Breadth)	3	Literature Breadth	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
Science Breadth (Physical Science, if B.S.)	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
COM ARTS Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	1
<b>15</b>		<b>13</b>	

**Total Credits 120**

# COMMUNICATION ARTS: RADIO-TELEVISION-FILM

## REQUIREMENTS

### REQUIREMENTS FOR RADIO-TELEVISION-FILM

A minimum of 10 courses and at 30 credits are required for this major.<sup>1</sup>

## FUNDAMENTALS

Code	Title	Credits
COM ARTS 250	Survey of Contemporary Media	3

## RADIO-TV-FILM CORE

Code	Title	Credits
<b>Complete two:</b>		
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3

## PRODUCTION

Code	Title	Credits
<b>Complete one:</b>		
COM ARTS 355	Introduction to Media Production	3
COM ARTS 465	Editing and Post-production for Video and Film	3
COM ARTS 466	Writing for Television and Film	3
COM ARTS 467	Cinematography and Sound Recording	3
COM ARTS 659	Advanced Motion Picture Production Workshop	3

## THEORY-HISTORY-CRITICISM

Code	Title	Credits
<b>Complete three:</b>		
COM ARTS 300	Film Comedy	3
COM ARTS 313	Topics in Film and Media Studies	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS/CHICLA 347	Race, Ethnicity, and Media	3
COM ARTS 352	Film History to 1960	3
COM ARTS 354	Film Genres	3
COM ARTS 357	History of the Animated Film	3
COM ARTS 358	History of Documentary Film	3
COM ARTS 359	Sports Media	3
COM ARTS 375	Ethics of Entertainment Media	3
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	3
COM ARTS/GEN&WS 418	Gender, Sexuality, and the Media	3
COM ARTS/CHICLA 419	Latino/as and Media	3
COM ARTS/ASIAN AM 420	Asian Americans and Media	3
COM ARTS/ASIAN 443	Indian Cinema and Beyond	3
COM ARTS 448	Media and National Identity	3
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 450	Cultural History of Broadcasting	3
COM ARTS 451	Television Criticism	3
COM ARTS 454	Critical Film Analysis	3
COM ARTS 455	French Film	3
COM ARTS 458	Global Media Cultures	3

COM ARTS 459	New Media and Society
COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 461	Global Art Cinema
COM ARTS 462	American Independent Cinema
COM ARTS 463	Avant-Garde Film
COM ARTS 540	Television Genres
COM ARTS 547	Digital Game Cultures
COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS 557	Contemporary Media Industries
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 613	Special Topics in Film
COM ARTS/ GERMAN 655	German Film
COM ARTS 669	Film Theory

## COMMUNICATION SCIENCE AND RHETORICAL STUDIES

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COM ARTS 260	Communication and Human Behavior	
COM ARTS 262	Theory and Practice of Argumentation and Debate	
COM ARTS 266	Theory and Practice of Group Discussion	
COM ARTS 272	Introduction to Interpersonal Communication	
or COM ARTS 277	Theory and Practice of Interpersonal Communication	
COM ARTS 310	Topics in Rhetoric and Communication Science	
COM ARTS/ GEN&WS 316	Gender and Communication	
COM ARTS 317	Rhetoric and Health	
COM ARTS 318	Introduction to Health Communication	
COM ARTS 325	Media and Human Behavior	
COM ARTS 345	Online Communication and Personal Relationships	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 361	Introduction to Quantitative Research in Communication	
COM ARTS 368	Theory and Practice of Persuasion	
COM ARTS 370	Great Speakers and Speeches	
COM ARTS 371	Communication and Conflict Resolution	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 373	Intercultural Communication & Rhetoric	

COM ARTS/ RELIG ST 374	The Rhetoric of Religion
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)
COM ARTS 402	The Psychology of Communication
COM ARTS 470	Contemporary Political Discourse
COM ARTS 472	Rhetoric and Technology
COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 509	Digital Media and Political Communication
COM ARTS 518	Communication and Health Inequalities
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 562	Theories of Deliberation and Controversy
COM ARTS 565	Communication and Interethnic Behavior
COM ARTS 570	Classical Rhetorical Theory
COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 671	Communication and Social Conflict

## ELECTIVES <sup>2</sup>

Code	Title	Credits
<b>Complete two additional COM ARTS courses numbered 200-699:</b>		<b>6</b>
COM ARTS 200	Introduction to Digital Communication	
COM ARTS 213	Introductory Topic in Communication Arts: Study Abroad	
COM ARTS 250	Survey of Contemporary Media	
COM ARTS 260	Communication and Human Behavior	
COM ARTS 262	Theory and Practice of Argumentation and Debate	

COM ARTS 266	Theory and Practice of Group Discussion	COM ARTS/ CHICLA 419	Latino/as and Media
COM ARTS 272	Introduction to Interpersonal Communication	COM ARTS/ ASIAN AM 420	Asian Americans and Media
or COM ARTS 273	Theory and Practice of Interpersonal Communication	COM ARTS/ ASIAN 443	Indian Cinema and Beyond
COM ARTS 298	Directed Study	COM ARTS/ AFRICAN/ L I S 444	Technology and Development in Africa and Beyond
COM ARTS 299	Directed Study		
COM ARTS 300	Film Comedy		
COM ARTS 310	Topics in Rhetoric and Communication Science	COM ARTS 448	Media and National Identity
COM ARTS 313	Topics in Film and Media Studies	COM ARTS 449	Sound Cultures: Podcasting and Music
COM ARTS/ GEN&WS 316	Gender and Communication	COM ARTS 450	Cultural History of Broadcasting
COM ARTS 317	Rhetoric and Health	COM ARTS 451	Television Criticism
COM ARTS 318	Introduction to Health Communication	COM ARTS 454	Critical Film Analysis
COM ARTS 325	Media and Human Behavior	COM ARTS 455	French Film
COM ARTS 345	Online Communication and Personal Relationships	COM ARTS 458	Global Media Cultures
COM ARTS 346	Critical Internet Studies	COM ARTS 459	New Media and Society
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	COM ARTS/ ITALIAN 460	Italian Film
COM ARTS 350	Introduction to Film	COM ARTS 461	Global Art Cinema
COM ARTS 351	Television Industries	COM ARTS 462	American Independent Cinema
COM ARTS 352	Film History to 1960	COM ARTS 463	Avant-Garde Film
COM ARTS 354	Film Genres	COM ARTS 465	Editing and Post-production for Video and Film
COM ARTS 355	Introduction to Media Production	COM ARTS 466	Writing for Television and Film
COM ARTS 357	History of the Animated Film	COM ARTS 467	Cinematography and Sound Recording
COM ARTS 358	History of Documentary Film	COM ARTS 468	Producing for Internet TV and Video
COM ARTS 359	Sports Media	COM ARTS 470	Contemporary Political Discourse
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	COM ARTS 472	Rhetoric and Technology
COM ARTS 361	Introduction to Quantitative Research in Communication	COM ARTS 476	Nature of Criticism-The Public Arts of Communication
COM ARTS 368	Theory and Practice of Persuasion	COM ARTS 478	Rhetoric and Power on the Internet
COM ARTS 370	Great Speakers and Speeches	COM ARTS 509	Digital Media and Political Communication
COM ARTS 371	Communication and Conflict Resolution	COM ARTS 513	Topics in Communication Arts: Study Abroad
COM ARTS 372	Rhetoric of Campaigns and Revolutions	COM ARTS 518	Communication and Health Inequalities
COM ARTS 373	Intercultural Communication & Rhetoric	COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	COM ARTS 525	Media, Deliberation, and Public Issues
COM ARTS 375	Ethics of Entertainment Media	COM ARTS 540	Television Genres
COM ARTS 376	Topics in Digital Studies (Radio, Television, & Film)	COM ARTS 547	Digital Game Cultures
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	COM ARTS 552	Contemporary Hollywood Cinema
COM ARTS 402	The Psychology of Communication	COM ARTS 556	The American Film Industry in the Era of the Studio System
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	COM ARTS 557	Contemporary Media Industries
		COM ARTS 562	Theories of Deliberation and Controversy
		COM ARTS 565	Communication and Interethnic Behavior
		COM ARTS 570	Classical Rhetorical Theory

COM ARTS 573	Rhetoric of Globalization and Transnationalism
COM ARTS 574	Rhetoric of US Immigration and Naturalization
COM ARTS 575	Communication in Complex Organizations
COM ARTS 577	Dynamics of Online Relationships
COM ARTS 608	Special Topics in Media and Cultural Studies
COM ARTS 609	Special Topics in Production
COM ARTS 610	Special Topics in Rhetoric and Public Address
COM ARTS 612	Special Topics in Communication Science
COM ARTS 613	Special Topics in Film
COM ARTS/ HDFS/ JOURN 616	Mass Media and Youth
COM ARTS/ JOURN/LSC 617	Health Communication in the Information Age
COM ARTS 651	Advanced Video Production and Direction
COM ARTS/ GERMAN 655	German Film
COM ARTS 659	Advanced Motion Picture Production Workshop
COM ARTS 669	Film Theory
COM ARTS 671	Communication and Social Conflict
COM ARTS 691	Senior Thesis
COM ARTS 692	Senior Thesis
COM ARTS 698	Directed Study
COM ARTS 699	Directed Study

## FOOTNOTES

1

A course can be applied to only one requirement within the major.

2

Excluding COM ARTS 605, COM ARTS 614 and COM ARTS 615.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COM ARTS 100 (meets Communication A)	3	COM ARTS 250 (meets Humanities Breadth)	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
Quantitative Reasoning A	4	Ethnic Studies	3
Elective	3	Biological Science Breadth	3
COUN PSY 125 (optional)	1	Elective	3
	<b>15</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
COM ARTS 272 (meets Communication B, Social Science Breadth, and COM ARTS Communication Science and Rhetorical Studies)	3	COM ARTS 351	3
COM ARTS 350 (meets Humanities Breadth)	3	COM ARTS 355	4
Physical Science Breadth	3	Literature Breadth	3
Quantitative Reasoning B	3	Science Breadth (Biological Science, if B.S.)	3
Elective	3	INTER-LS 210 (optional)	1
Declare the major			
	<b>15</b>		<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
COM ARTS Theory-History-Criticism	3	Social Science Breadth	3
Social Science Breadth	3	Literature Breadth	3
Science Breadth (Physical Science, if B.S.)	3	Elective	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
COM ARTS Theory-History-Criticism	3	COM ARTS Elective	3
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective	3
Social Science Breadth	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120**

# DIGITAL CINEMA PRODUCTION, CERTIFICATE

Explore the fundamentals of storytelling through the digital cinema production certificate. Certificate students complete coursework in screenwriting, producing, directing, cinematography and sound, editing, and related fields. They master the aesthetic and technical tools of moving-image storytelling, learn creative decision making, employ collaborative work skills, and apply industry standards. The digital cinema production certificate is relevant to undergraduates across campus who are considering careers in film, television, documentary, and internet-based media.

## HOW TO GET IN

### ADMISSION TO THE CERTIFICATE

To be eligible to declare the certificate, students must

1. complete COM ARTS 355 with a grade of B or higher;
2. earn a grade of B or higher in their first attempt of one of the following courses:

Code	Title	Credits
COM ARTS 465	Editing and Post-production for Video and Film	4
COM ARTS 466	Writing for Television and Film	3
COM ARTS 467	Cinematography and Sound Recording	4
COM ARTS 468	Producing for Internet TV and Video	3
COM ARTS 609	Special Topics in Production	3
COM ARTS 651	Advanced Video Production and Direction	3

Students who meet the Admission criteria should speak with the advisor to declare the certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Four courses and at least 13 credits are required.

Code	Title	Credits
COM ARTS 355	Introduction to Media Production	4
<b>Electives (complete three):</b>		<b>9</b>
COM ARTS 465	Editing and Post-production for Video and Film	
COM ARTS 466	Writing for Television and Film	
COM ARTS 467	Cinematography and Sound Recording	
COM ARTS 468	Producing for Internet TV and Video	
COM ARTS 609	Special Topics in Production	
COM ARTS 651	Advanced Video Production and Direction	

COM ARTS 659 Advanced Motion Picture Production Workshop

**Total Credits** **13**

### RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA in all certificate courses.
- At least 7 certificate credits must be completed in residence.

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate mastery of the aesthetic and technical tools of moving-image storytelling.
2. Analyze story structure and illustrate how their creative decisions support their interpretation of story.
3. Employ collaborative work skills to perform in the role of leaders or members of production crews/groups.
4. Analyze the meaning, form, and process of cinematic work with the goal of providing honest, critical, and instructive feedback.
5. Reproduce and apply industry standard methods for media pre-production, production and post-production, and explain the rationale for these methods.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

The Department of Communication Arts academic advisors (<https://commarts.wisc.edu/undergraduate/advising/>) serve as the advisors for the digital cinema production certificate. Contact an advisor to learn more about the certificate, discuss eligibility, declare, or review certificate requirements. Please see the Communication Arts website (<https://commarts.wisc.edu/undergraduate/advising/>) for advising options.

#### Contact Information:

Steffie Halverson, 6114 Vilas Hall, 608-262-2285, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)  
Mary Rossa, 6068 Vilas Hall, 608-262-0992, [advising@commarts.wisc.edu](mailto:advising@commarts.wisc.edu)

### CAREER ADVISING

The communications, arts & entertainment career community advisor (<https://careers.ls.wisc.edu/what-are-career-communities/communications-arts-and-entertainment/>) assists students with career preparation, such as exploring career options, strategies for the internship/job search, and networking opportunities.

### DIGITAL CINEMA PRODUCTION COURSES

The selection of courses varies by semester. Please check Course Search and Enroll for current offerings.

## CAREER EXPLORATION AND PREPARATION

### Gain Experience

The Department of Communication Arts encourages students to apply the knowledge and skills they attain through coursework to professional settings. Internships and part-time jobs at television networks, nonprofit organizations, talent agencies, magazines, radio stations, advertising agencies, production companies, government agencies, and other communication-related businesses help students gain work-related experience and explore career options. Emails and postings provide certificate students with information on opportunities across the country.

### Attend Events

Throughout the academic year, students have the opportunity to participate in several communication-focused, career-related events.

### Join a Student Organization

Learn more about the entertainment industry and career opportunities by joining the Hollywood Badgers, a Communication Arts Department affiliated student organization.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## INSTRUCTIONAL STAFF

Erik Gunneson, Teaching Faculty II

## ACADEMIC ADVISING

Steffie Halverson, Academic Advisor; Mary Rossa, Academic Advising Manager

## CAREER ADVISING

Communications, Arts & Entertainment Career Community Advisor (<https://careers.ls.wisc.edu/what-are-career-communities/communications-arts-and-entertainment/>)

## RESOURCES AND SCHOLARSHIPS

## COMMUNICATION ARTS INSTRUCTIONAL MEDIA CENTER

The Instructional Media Center (<https://commarts.wisc.edu/imc/>) (IMC), located in 3160 Vilas Hall, provides state-of-the-art equipment for communication arts media-production courses. The IMC circulates industry-standard camera, lighting, grip, and sound equipment for use on set. The Hamel Family Digital Media Lab's 70 editing stations and the department's two sound stages are also managed by the Instructional Media staff.

## DIGITAL STUDIES, CERTIFICATE

The Digital Studies Certificate helps students learn about digital culture and develop their skills in producing digital media content. Each student that completes the Digital Studies Certificate will be able to better recognize what digital communication tools can do and how to use them.

Digital cultures are about relationships between people and the digital tools they use. To better understand those relationships, Digital Studies students think about two big questions:

- What impact do digital technologies have on our lives?
- How can we use digital tools to make our world a better place?

Digital Studies students approach these questions from four different perspectives:

- Digital Practice - learning how to use digital tools to produce better digital content
- Digital Media - learning how to assess digital media to better understand digital cultures
- Digital Information - learning how we use and produce digital archives, databases, and other digital information tools
- Digital Forms - learning how design impacts the ways we interpret and produce digital content

Students who add the Digital Studies Certificate to their major(s) will be recognized as someone who can more quickly and more effectively use digital tools in any environment.

## PEOPLE

### FACULTY

Aaron Greer, Associate Professor

Eric Hoyt, Professor



## HOW TO GET IN

### DECLARING THE DIGITAL STUDIES CERTIFICATE

Students are eligible to declare the certificate at any point in their undergraduate career. They should declare it as early as possible to plan the required coursework. Students are encouraged to meet with the Digital Studies advisor (<https://digitalstudies.wisc.edu/undergraduate-certificate/advising/>) to discuss certificate requirements and ensure it fits with their academic and career goals. Students who are ready to declare the certificate now may complete this form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8kLFLI3ADELQIn/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8kLFLI3ADELQIn/)).

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires a minimum of six courses and 16 credits. The courses must be distributed as follows:

#### CORE COURSES

Choose one course from this list:

Code	Title	Credits
COM ARTS 200	Introduction to Digital Communication	3
JOURN 175	Media Fluency for the Digital Age	3
L I S 201	The Information Society	4

#### DISTRIBUTION

Choose one course from each area (a unique course must be taken to satisfy each area):

##### Digital Practice (P) Courses

Code	Title	Credits
ART 107	Introduction to Digital Forms	3
ART 309	Digital Art and Code	4
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 528	Digital Interactive Studio	4
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 355	Introduction to Media Production	4
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 465	Editing and Post-production for Video and Film	4
COM ARTS 468	Producing for Internet TV and Video	3
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media	3
COMP SCI/L I S 102	Introduction to Computing	3
COMP SCI 200	Programming I	3
COMP SCI 220	Data Science Programming I	4

CURRIC 209	Digital Media and Literacy	3
GEOG 370	Introduction to Cartography	4
JOURN 411	Multimedia Design	4
JOURN 417	Magazine Publishing	4
JOURN 425	Video Journalism	4
JOURN 445	Creative Campaign Messages	4
JOURN 449	Account Planning and Strategy	4
JOURN 463	Digital Media Strategies	4
JOURN 464	Public Relations Strategies	4
JOURN 465	Social Media Marketing Communications	4
JOURN 670	Community Service Learning: Technology for Social Change	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 351	Introduction to Digital Information	3
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S 500	Code and Power	3
LSC 314	Introduction to Digital Video Production	3
LSC 332	Print and Electronic Media Design	3
LSC 360	Information Radio	3
LSC 432	Social Media for the Life Sciences	3
LSC 450	Documentary Photography for the Sciences	3
LSC 532	Web Design for the Sciences	3
LSC 614	Advanced Video Production	3
THEATRE 213	Digital Design Visualization for Entertainment	3

##### Digital Media (M) Courses

Code	Title	Credits
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	3
COM ARTS 449	Sound Cultures: Podcasting and Music	3
COM ARTS 472	Rhetoric and Technology	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS 509	Digital Media and Political Communication	3
COM ARTS 547	Digital Game Cultures	3
COM ARTS 577	Dynamics of Online Relationships	3
ENGL 178	Digital Media, Literature, and Culture	3
JOURN 463	Digital Media Strategies	4
JOURN 464	Public Relations Strategies	4
JOURN 465	Social Media Marketing Communications	4
JOURN 622	The Impact of Emerging Media	3

L I S 340	Topics in Information Studies - Social Aspects	3
L I S 510	Human Factors in Information Security	3
L I S/NURSING/ OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
L I S 661	Information Ethics and Policy	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3
LSC 350	Visualizing Science and Technology	3
LSC 432	Social Media for the Life Sciences	3
LSC 440	Digital Media and Science Communication	3
LSC 460	Social Media Analytics	3
MARKETNG 355	Marketing in a Digital Age	3

### Digital Information (I) Courses

Code	Title	Credits
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 377	Topics in Digital Studies (Communication Science & Rhetoric)	3
COM ARTS 472	Rhetoric and Technology	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS/JOURN/ LSC 617	Health Communication in the Information Age	3
CURRIC 209	Digital Media and Literacy	3
GEOG 572	Graphic Design in Cartography	3-4
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	3
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 301	Information Literacies in Online Spaces	3
L I S 340	Topics in Information Studies - Social Aspects	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 351	Introduction to Digital Information	3
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S 500	Code and Power	3
L I S 510	Human Factors in Information Security	3
L I S/NURSING/ OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
L I S 661	Information Ethics and Policy	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3
LSC 460	Social Media Analytics	3

### Digital Forms (F) Courses

Code	Title	Credits
ART 107	Introduction to Digital Forms	3
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 355	Introduction to Media Production	4
COM ARTS 465	Editing and Post-production for Video and Film	4
COM ARTS 468	Producing for Internet TV and Video	3
COM ARTS/ FOLKLORE 522	Digital Storytelling for Social Media	3
GEOG 370	Introduction to Cartography	4
GEOG 572	Graphic Design in Cartography	3-4
JOURN 411	Multimedia Design	4
JOURN 417	Magazine Publishing	4
JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	3
LSC 332	Print and Electronic Media Design	3
LSC 350	Visualizing Science and Technology	3
LSC 450	Documentary Photography for the Sciences	3
LSC 532	Web Design for the Sciences	3

### CAPSTONE

Code	Title	Credits
COM ARTS 605	Digital Studies Capstone <sup>1</sup>	1

1

The Capstone cannot be completed until students are in their senior year and have completed or are enrolled in their final course of the certificate.

## RESIDENCE AND QUALITY OF WORK

- At least 9 Certificate credits in Residence
- Minimum 2.000 GPA in all Certificate courses

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. To understand key theories and concepts related to digital studies and the historical context surrounding the creation of digital technologies.
2. To gain familiarity with methods, concepts and tools needed to research and evaluate information related to digital studies.
3. To think critically about how digital technologies work and their impact on society.
4. To be able to create strategic communication content and self-expression using digital tools.

5. To understand the professional and ethical principles related to the field of digital studies.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Connecting and working with the digital studies advisor as early as possible helps you create a meaningful course plan and stay on track as you complete the certificate requirements. The advisor is available to consult on a variety of topics including:

- Declaring the certificate
- Course selection
- Studying abroad
- Job and internship opportunities related to digital media
- Preparing for the job market after graduation.

Make an appointment to talk with the digital studies advisor through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/11236/schedule>).

### COURSE PLANNING

The list of digital studies courses found on the Requirements tab (<https://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/#requirementstext>) is the comprehensive list of all courses that count toward the certificate. To find out which courses are offered during a specific term, please refer to the program's Courses (<https://digitalstudies.wisc.edu/undergraduate-certificate/requirements-courses/#tailor-your-courses>) webpage. More specific information related to the course offerings is also available there, including: specific course prerequisites, limited enrollment course information, and application requirements.

## CAREER EXPLORATION AND ADVISING

### CAREER ADVISING

The communication and media career advisor (<https://journalism.wisc.edu/career-services/advising/>) assists students with career preparation, such as exploring career options, learning internship and job search strategies, and writing resumes and cover letters. Workshops, programs and events, as well as guest speakers ranging from alumni to employers, are all available during the year as well.

### DIGITAL STUDIES ALUMNI

Since 2012, over 1,000 students have graduated with a Digital Studies Certificate. Digital Studies alumni pursue a variety of careers after completing their undergraduate degree. To learn more about what our alumni are up to, visit the Alumni Profiles page (<https://digitalstudies.wisc.edu/alumni/alumni-profiles/>) to read about the work they are doing and how Digital Studies has impacted their paths.

## L&S CAREER RESOURCES

SuccessWorks at the College of Letters & Science helps students leverage the academic skills learned in their major, certificates, and liberal arts degree; explore and try out different career paths; participate in internships; prepare for the job search and/or graduate school applications; and network with professionals in the field (alumni and employers). In short, SuccessWorks helps students in the College of

Letters & Science discover themselves, find opportunities and develop the skills they need for success after graduation.

SuccessWorks can also assist students in career advising, résumé and cover letter writing, networking opportunities, and interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

Students should set up their profiles in Handshake (<https://careers.ls.wisc.edu/handshake/>) to take care of everything they need to explore career events, manage their campus interviews and **apply to jobs and internships from 200,000+ employers around the country**.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://careers.ls.wisc.edu/make-an-appointment/>)
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first- and second-year students)—for more information, see Inter-LS 210: Career Development, Taking Initiative (<https://careers.ls.wisc.edu/inter-ls-210-career-development-taking-initiative/>)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Com B General Education Requirement)
- Handshake (<https://careers.ls.wisc.edu/handshake/>)
- Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/lsci/>)

## PEOPLE

Please see the Digital Studies Certificate website (<https://digitalstudies.wisc.edu/people/>) for a list of certificate staff and committee members.

## WISCONSIN EXPERIENCE

Students who pursue the Digital Studies Certificate have access to unique and exciting courses where they not only study digital culture, but learn to be savvy users and producers of digital media that they can use in their professional lives. Examples of work that students produce include websites, videos, illustrations, posters, podcasts, and more. See examples of student work on our website (<https://digitalstudies.wisc.edu/student-showcase/>).

Digital Studies Certificate students also have access to networking and alumni events featuring careers in digital media, internship and job opportunities emailed directly to them, technology resources through the Instructional Media Center (<https://commarts.wisc.edu/imc/>), and design consulting services through DesignLab (<https://designlab.wisc.edu/>). Through advising, students receive tailored recommendations based on their interests and are encouraged to seek out ways to apply the knowledge they are learning in the classroom through involvement in student organizations, volunteering, and internships.

## COMMUNICATION SCIENCES AND DISORDERS

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech-language pathology, audiology, and the normal aspects of speech, hearing, and language.

Most students pursue this major because they hope to practice as licensed and/or certified clinicians in educational and medical-allied-health settings, assisting clients with communicative impairments arising from disease, trauma, predisposition, maladaptive learning, or unknown causes. Professional clinical practice follows completion of a master's degree in speech-language pathology (<http://guide.wisc.edu/graduate/communication-sciences-disorders/communication-sciences-disorders-ms/>), or a doctor of audiology degree (<http://guide.wisc.edu/graduate/communication-sciences-disorders/audiology-aud/>), and involves evaluation and treatment based upon a firm theoretical understanding of normal processes of hearing, and of speech and language formulation, production, and perception. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., law, medicine, nursing, special education).

Students are urged to consult with an undergraduate academic advisor in the department as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others. Many of the courses are offered only once a year. **To declare the major**, students must earn a grade point average of 3.000 or better for the three courses CS&D 201 Anatomy and Physiology of Speech Production, CS&D 202 Hearing Science, and CS&D 240 Language Development in Children and Adolescents, the first time these courses are attempted. Prospective majors typically begin taking this three-course "gateway" sequence as sophomores. Major declaration forms may be obtained from an advisor after the gateway criterion has been satisfied, and should be returned to the advisor for processing.

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education (p. 1543). Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements for the major. Moreover, each program (L&S and Education) has its own general liberal studies requirements involving, for example, sciences, math, foreign language, social studies, and humanities. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech-language pathology and in audiology by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## DEGREES/MAJORS/CERTIFICATES

- Communication Sciences and Disorders, B.A. (p. 660)
- Communication Sciences and Disorders, B.S. (p. 665)

## PEOPLE

Professors Connor, Ellis Weismer, Fowler, Hustad, Kaushanskaya, Litovsky, Thibeault

Associate Professor Ciucci

Assistant Professors Boothalingam, Parrell, Niziolek, Sterling

Visiting Assistant Professors Easwar, Finney, Rountrey

Clinical Professor Quinn

Clinical Associate Professors Buhr-Lawler, Caul, Cohen, Douglas, Eith, Hartman, Kroll, Krug, Lee, Seidel

Lecturer Johnson

## COMMUNICATION SCIENCES AND DISORDERS, B.A.

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech-language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to work as a licensed and certified clinical speech-language pathologist or audiologist, assisting clients with communication impairments arising from acquired neurological conditions, developmental conditions, genetic conditions, or unknown causes. Professional clinical practice follows completion of a master's degree in speech-language pathology, or a doctor of audiology degree. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths through summer 2023 (speech-language pathology assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education. Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements. Moreover, each program (L&S and Education) has its own general liberal studies requirements. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech-language pathology and in audiology by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## HOW TO GET IN

Students are urged to consult with an undergraduate academic advisor as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others.

## DECLARING THE MAJOR

Students in the College of Letters and Science may declare a major in CS&D by sending an email to [undergrad@cswd.wisc.edu](mailto:undergrad@cswd.wisc.edu):

- State that you would like to declare a major in CS&D
- Include your full name and student ID number

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR CS&D COURSES

10 courses and 30 credits from:

Code	Title	Credits
CS&D 201	Anatomy and Physiology of Speech Production	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial, and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
<b>Total Credits</b>		<b>30</b>

### COURSES IN RELATED AREAS

18 credits and one course from each of the following areas:

#### Psychology

Code	Title	Credits
PSYCH 202	Introduction to Psychology	3-4
HDFS 262	Development of the Young Child	3
HDFS 263	Development from Adolescence to Old Age	3

**Statistics**

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 302	Accelerated Introduction to Statistical Methods	3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4

**Linguistics**

Code	Title	Credits
LINGUIS 101	Human Language	3
LINGUIS/ANTHRO/ FOLKLORE/ INTL ST 211	Global Language Issues	3
LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	3
LINGUIS 303	Historical Linguistics	3
LINGUIS 237	Language in Wisconsin	3
LINGUIS/ AMER IND 371	Survey of North American Indian Languages	3
LINGUIS/ ANTHRO 430	Language and Culture	3-4
ENGL 214	The English Language	3
ENGL 314	Structure of English	3
ENGL 318	Second Language Acquisition	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 327	Introduction to Spanish Linguistics	3

**Ethnic Studies**

Code	Title	Credits
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	3-4
AMER IND/ ANTHRO 314	Indians of North America	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/ AFROAMER/ AMER IND/CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3
ASIAN AM 170	Hmong American Experiences in the United States	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
ENGL 319	Language, Race, and Identity	3

GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4
HISTORY 227	Explorations in the History of Race and Ethnicity	3
HISTORY 403	Immigration and Assimilation in American History	3-4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
SOC 134	Sociology of Race & Ethnicity in the United States	3-4
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4

**Biological Sciences in the major**

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOCHEM 104	Molecules to Life and the Nature of Science <sup>1</sup>	3
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
ZOOLOGY/ BIOLOGY 101	Animal Biology	3

**Physical Sciences in the major**

Code	Title	Credits
BIOCHEM 104	Molecules to Life and the Nature of Science <sup>1</sup>	3
CHEM 103	General Chemistry I	4
CHEM 108	Chemistry in Our World	5
CHEM 109	Advanced General Chemistry	5
PHYSICS 103	General Physics	4
PHYSICS 107	The Ideas of Modern Physics	3
PHYSICS 109	Physics in the Arts	3

**ELECTIVES**

Code	Title	Credits
CS&D 110	Introduction to Communicative Disorders	3
CS&D 371	Pre-Clinical Observation of Children and Adults	3
CS&D 424	Sign Language I	2

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all CS&D and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in CS&D, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Communication Sciences and Disorders Major in consultation with the undergraduate advisor in that department.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Communications Sciences and Disorders, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all CS&D and major courses
- Complete the following courses for Honors earning a grade of B or better in each:

Code	Title	Credits
CS&D 481	Undergraduate Junior Honors	3
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis	6
2 of the following for Honors:		6
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
<b>Total Credits</b>		<b>15</b>

## DISTINCTION IN THE MAJOR

Students majoring in communication sciences and disorders who are not Honors candidates may earn Distinction in the Major, provided that they obtain consent of the department honors advisor, achieve a minimum GPA of 3.750 in CS&D and major courses, and satisfy these requirements:

Code	Title	Credits
<b>Two courses, taken for Honors</b>		
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
<b>Undergraduate Honors Seminar</b>		
CS&D 481	Undergraduate Junior Honors	

## FOOTNOTES

1

BIOCHEM 104 can meet either the "Biological Science in the Major" or the "Physical Science in the Major" requirement, but not both. Please note that this course will *not* meet students' L&S Physical Science breadth *degree requirement*.

2

These courses are considered upper level in the major: CS&D 303, CS&D 315, CS&D 318, CS&D 320, CS&D 371, CS&D 424, CS&D 425, CS&D 440, CS&D 699

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire a foundational understanding of basic anatomy and physiology of speech, language, and hearing.
2. Understand integrative neuroscience foundations of speech, language, and hearing.
3. Obtain basic knowledge in statistical sciences, linguistics, biological/physical sciences, social sciences, and humanities as related to Communication Sciences & Disorders.
4. Develop an understanding of speech, language, and hearing disorders and the relationship to foundational aspects of speech, language and hearing science.
5. Be prepared for graduate school and/or a career in Communication Sciences & Disorders and related areas.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Please refer to the Requirements tab in Guide for additional College of Letters and Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

**First Year**

Fall	Credits	Spring	Credits
CS&D 201	3	CS&D 202	3
Communication A	3	Ethnic Studies content area course	3
Quantitative Reasoning A	4	Foreign Language	4
Foreign Language	4	Psych content area course	3
Physical Science Content Area Course	3	Biological Science content area course	3
<b>17</b>		<b>16</b>	

**Second Year**

Fall	Credits	Spring	Credits
CS&D 240	3	CS&D 210	3
INTER-LS 210	1	Statistics content area course	3
Quantitative Reasoning B	4	Communication B	4
Literature Breadth	3	Literature Breadth	3
Electives	3	Electives	3
<b>14</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
CS&D 303	3	CS&D 425	3
CS&D 320	3	CS&D 440	3
Linguistics content area course	3	Social Science Breadth	3
Humanities Breadth	3	Electives	6
<b>12</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
CS&D 315	3	CS&D 371	3
Electives	12	CS&D 318	3
		Electives	9
<b>15</b>		<b>15</b>	

**Total Credits 120****ADVISING AND CAREERS**

CS&D advising services are focused on students who need to declare the major or who have already declared CS&D and need advising in the major.

A CS&D advisor can help with:

- Curricular planning and course access
- DARS interpretation
- Declaration of the major for L&S students
- Documentation of study abroad plans
- Identification, interpretation and application of most academic policies
- Major and degree requirements
- Exploration of interests in independent study and research
- Understanding the differences between paths to the major

**Students seeking to pursue graduate study in speech-language pathology or audiology**

are urged to take CS&D 371 Pre-Clinical Observation of Children and Adults (3 cr) –to earn ASHA observation hours which are required for graduate school admission.

The American Speech-Language-Hearing Association (ASHA) Standard IV-A (<https://www.asha.org/Certification/Course-Content-Areas-for-SLP-Standards/>) requires that Communication Sciences and Disorders students planning on continuing to graduate school must complete undergraduate coursework in the following areas: Biological Sciences, Physical Sciences (either Chemistry or Physics), Statistics, and Social Sciences and Behavioral Sciences to be eligible for professional certification. If you have questions about this, please contact [undergrad@csd.wisc.edu](mailto:undergrad@csd.wisc.edu).

Director of Undergraduate Studies  
[undergrad@csd.wisc.edu](mailto:undergrad@csd.wisc.edu)

Please visit our website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Information about faculty and staff can be found on the department's website (<https://csd.wisc.edu/peopleofCSD.htm>).



# COMMUNICATION SCIENCES AND DISORDERS, B.S.

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech–language pathology, audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to work as a licensed and certified clinical speech–language pathologist or audiologist, assisting clients with communication impairments arising from acquired neurological conditions, developmental conditions, genetic conditions, or unknown causes. Professional clinical practice follows completion of a master’s degree in speech–language pathology, or a doctor of audiology degree. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths through summer 2023 (speech–language pathology assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science, or through the School of Education. Students select one program to follow, and should be aware that the two programs differ somewhat in their requirements. Moreover, each program (L&S and Education) has its own general liberal studies requirements. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech–language pathology and in audiology by the Council on Academic Accreditation of the American Speech–Language–Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## HOW TO GET IN

Students are urged to consult with an undergraduate academic advisor as soon as they have decided to major in this field. Course sequencing in the major is not flexible. Certain courses are prerequisites to others.

### DECLARING THE MAJOR

Students in the College of Letters and Science may declare a major in CS&D by sending an email to [undergrad@csd.wisc.edu](mailto:undergrad@csd.wisc.edu):

- State that you would like to declare a major in CS&D
- Include your full name and student ID number

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

Quality of Work • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR CS&D COURSES

10 courses and 30 credits from:

Code	Title	Credits
CS&D 201	Anatomy and Physiology of Speech Production	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial, and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3
<b>Total Credits</b>		<b>30</b>

## COURSES IN RELATED AREAS

18 credits and one course from each of the following areas:

### Psychology

Code	Title	Credits
PSYCH 202	Introduction to Psychology	3-4
HDFS 262	Development of the Young Child	3
HDFS 263	Development from Adolescence to Old Age	3

### Statistics

Code	Title	Credits
STAT 301	Introduction to Statistical Methods	3
STAT 302	Accelerated Introduction to Statistical Methods	3
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
PSYCH 210	Basic Statistics for Psychology	3
SOC/C&E SOC 360	Statistics for Sociologists I	4

### Linguistics

Code	Title	Credits
LINGUIS 101	Human Language	3
LINGUIS/ANTHRO/FOLKLORE/INTL ST 211	Global Language Issues	3
LINGUIS/ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	3
LINGUIS 303	Historical Linguistics	3
LINGUIS 237	Language in Wisconsin	3
LINGUIS/AMER IND 371	Survey of North American Indian Languages	3
LINGUIS/ANTHRO 430	Language and Culture	3-4
ENGL 214	The English Language	3
ENGL 314	Structure of English	3
ENGL 318	Second Language Acquisition	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH 327	Introduction to Spanish Linguistics	3

### Ethnic Studies

Code	Title	Credits
AFROAMER/HIST SCI 275	Science, Medicine, and Race: A History	3-4
AMER IND/ANTHRO 314	Indians of North America	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/AFROAMER/AMER IND/CHICLA/FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3
ASIAN AM 170	Hmong American Experiences in the United States	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
ENGL 319	Language, Race, and Identity	3
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
HISTORY/CHICLA 153	Latina/Latino/Latinx History	3-4
HISTORY 227	Explorations in the History of Race and Ethnicity	3
HISTORY 403	Immigration and Assimilation in American History	3-4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
SOC 134	Sociology of Race & Ethnicity in the United States	3-4

SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
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### Biological Sciences in the major

Code	Title	Credits
ANTHRO 105	Principles of Biological Anthropology	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOCHEM 104	Molecules to Life and the Nature of Science <sup>1</sup>	3
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
ZOOLOGY/ BIOLOGY 101	Animal Biology	3

### Physical Sciences in the major

Code	Title	Credits
BIOCHEM 104	Molecules to Life and the Nature of Science <sup>1</sup>	3
CHEM 103	General Chemistry I	4
CHEM 108	Chemistry in Our World	5
CHEM 109	Advanced General Chemistry	5
PHYSICS 103	General Physics	4
PHYSICS 107	The Ideas of Modern Physics	3
PHYSICS 109	Physics in the Arts	3

### ELECTIVES

Code	Title	Credits
CS&D 110	Introduction to Communicative Disorders	3
CS&D 371	Pre-Clinical Observation of Children and Adults	3
CS&D 424	Sign Language I	2

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all CS&D and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in CS&D, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Communication Sciences and Disorders Major in consultation with the undergraduate advisor in that department.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Communications Sciences and Disorders, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all CS&D and major courses
- Complete the following courses for Honors earning a grade of B or better in each:

Code	Title	Credits
CS&D 481	Undergraduate Junior Honors	3
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis	6
2 of the following for Honors:		6
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	
<b>Total Credits</b>		<b>15</b>

## DISTINCTION IN THE MAJOR

Students majoring in communication sciences and disorders who are not Honors candidates may earn Distinction in the Major, provided that they obtain consent of the department honors advisor, achieve a minimum GPA of 3.750 in CS&D and major courses, and satisfy these requirements:

Code	Title	Credits
<b>Two courses, taken for Honors</b>		
CS&D 303	Speech Acoustics and Perception	
CS&D 320	Introduction to Audiology	
CS&D 440	Child Language Disorders, Assessment and Intervention	

### Undergraduate Honors Seminar

CS&D 481	Undergraduate Junior Honors
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## FOOTNOTES

1

BIOCHEM 104 can meet either the "Biological Science in the Major" or the "Physical Science in the Major" requirement, but not both. Please note that this course will *not* meet students' L&S Physical Science breath *degree requirement*.

2

These courses are considered upper level in the major: CS&D 303, CS&D 315, CS&D 318, CS&D 320, CS&D 371, CS&D 424, CS&D 425, CS&D 440, CS&D 699

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire a foundational understanding of basic anatomy and physiology of speech, language, and hearing.
2. Understand integrative neuroscience foundations of speech, language, and hearing.
3. Obtain basic knowledge in statistical sciences, linguistics, biological/physical sciences, social sciences, and humanities as related to Communication Sciences & Disorders.
4. Develop an understanding of speech, language, and hearing disorders and the relationship to foundational aspects of speech, language and hearing science.
5. Be prepared for graduate school and/or a career in Communication Sciences & Disorders and related areas.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Please refer to the Requirements tab in Guide for additional College of Letters and Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

#### First Year

Fall	Credits	Spring	Credits
CS&D 201	3	CS&D 202	3
Communication A	3	Ethnic Studies content area course	3
Quantitative Reasoning A	4	Foreign Language	4
Foreign Language	4	Psych content area course	3
Physical Science Content Area Course	3	Biological Science content area course	3
<b>17</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
CS&D 240	3	CS&D 210	3
INTER-LS 210	3	Statistics content area course	3
Quantitative Reasoning B	4	Communication B	4
Literature Breadth	3	Literature Breadth	3

Electives	3 Electives	3
<b>14</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
CS&D 303	3	CS&D 425	3
CS&D 320	3	CS&D 440	3
Linguistics content area course	3	Social Science Breadth	3
Humanities Breadth	3	Electives	6
<b>12</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
CS&D 315	3	CS&D 371	3
Electives	12	CS&D 318	3
		Electives	9
<b>15</b>		<b>15</b>	

**Total Credits 120**

## ADVISING AND CAREERS

CS&D advising services are focused on students who need to declare the major or who have already declared CS&D and need advising in the major.

A CS&D advisor can help with:

- Curricular planning and course access
- DARS interpretation
- Declaration of the major for L&S students
- Documentation of study abroad plans
- Identification, interpretation and application of most academic policies
- Major and degree requirements
- Exploration of interests in independent study and research
- Understanding the differences between paths to the major

#### Students seeking to pursue graduate study in speech-language pathology or audiology

are urged to take CS&D 371 Pre-Clinical Observation of Children and Adults (3 cr) —to earn ASHA observation hours which are required for graduate school admission.

The American Speech-Language-Hearing Association (ASHA) Standard IV-A (<https://www.asha.org/Certification/Course-Content-Areas-for-SLP-Standards/>) requires that Communication Sciences and Disorders students planning on continuing to graduate school must complete undergraduate coursework in the following areas: Biological Sciences, Physical Sciences (either Chemistry or Physics), Statistics, and Social Sciences and Behavioral Sciences to be eligible for professional certification. If you have questions about this, please contact [undergrad@csd.wisc.edu](mailto:undergrad@csd.wisc.edu).

Director of Undergraduate Studies  
[undergrad@csd.wisc.edu](mailto:undergrad@csd.wisc.edu)

Please visit our website (<https://csd.wisc.edu/undergraduate.htm>) for details on weekly advising sessions.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Information about faculty and staff can be found on the department's website (<https://csd.wisc.edu/peopleofCSD.htm>).

## COMPUTER SCIENCES

Our graduates discover that **computer science (CS)** opens up a world of possibilities.

Computer scientists enjoy **exceptional career opportunities**, in settings ranging from large, established companies to adventurous new start-ups. They are also well qualified to pursue graduate study in a number of fields.

Our students are **creative, analytical problem-solvers**. This is a rich, collaborative and varied field that you will find challenging, no matter where your individual interests lie.

And there is more to CS than programming. While **software engineering** is an important skill, computer scientists also **work with robots** and other physical devices, **design hardware that runs faster** and more efficiently, and **apply machine learning techniques** to gain insight from large data sets—to name just a few examples.

Because CS has become highly **interconnected with medicine, business and many other fields**, it is a great fit with other interests you may have. You will enjoy a strong career outlook while having an **impact on society**.

## DEGREES/MAJORS/CERTIFICATES

- Computer Sciences, B.A. (p. 669)
- Computer Sciences, B.S. (p. 674)
- Computer Sciences, Certificate (p. 679)

## PEOPLE

Visit the CS website to view our department faculty (<https://www.cs.wisc.edu/people/faculty/>) and staff (<https://www.cs.wisc.edu/people/staff/>).

## COMPUTER SCIENCES, B.A.

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Because CS has become highly **interconnected with medicine, business and many other fields**, it is a great fit with other interests you may have. You will enjoy a strong career outlook while having an **impact on society**.

## HOW TO GET IN

### DECLARATION REQUIREMENTS

To declare the computer sciences major, students must meet the following requirements<sup>1</sup>:

- Completion of COMP SCI 300 and either MATH 222 or MATH 276
- Grade of BC or higher in one of these introductory programming courses, taken at UW-Madison: COMP SCI 300, COMP SCI/ E C E 354 or COMP SCI 400
- 2.250 GPA or higher among the first completed attempts of these courses: COMP SCI 300 and either MATH 222 or MATH 276

1

For purposes of computer sciences major declaration requirements, GPA is calculated with UW-Madison courses only and does include the first attempt of all eligible major declaration coursework completed at time of submitting major declaration request. Repeated coursework is not included.

If a student needs additional coursework to meet the 2.250 GPA requirement, COMP SCI/MATH 240, COMP SCI/E C E 354, and/or COMP SCI 400 Programming III may also be used.

Students having difficulties meeting the above requirements should schedule a meeting with a computer sciences advisor.

For instructions on declaring the major, see the Department of Computer Sciences website (<https://www.cs.wisc.edu/undergraduate/ba-bs-in-compsci/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR BASIC COMPUTER SCIENCES

Code	Title	Credits
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	3
COMP SCI/ E C E 252	Introduction to Computer Engineering	3
COMP SCI 300	Programming II	3
COMP SCI/ E C E 354	Machine Organization and Programming	3
COMP SCI 400	Programming III	3
<b>Total Credits</b>		<b>15</b>

**BASIC CALCULUS**

Code	Title	Credits
<b>Complete one of these sequences:</b>		
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	<b>9-14</b>
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	
<b>Total Credits</b>		<b>9-14</b>

**ADDITIONAL MATHEMATICS (BEYOND CALCULUS)**

Code	Title	Credits
<b>Complete two courses for at least 6 credits:</b>		
MATH 340	Elementary Matrix and Linear Algebra <sup>1</sup>	<b>6-10</b>
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
STAT 324	Introductory Applied Statistics for Engineers	
COMP SCI 412	Introduction to Numerical Methods <sup>2</sup>	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/ I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI/ I SY E 526	Advanced Linear Programming	
E C E 331	Introduction to Random Signal Analysis and Statistics	
MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 331	Introductory Probability	
MATH 341	Linear Algebra	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	

MATH/STAT 431	Introduction to the Theory of Probability	
MATH 443	Applied Linear Algebra	
MATH 461	College Geometry I	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
MATH 521	Analysis I	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 567	Modern Number Theory	
MATH/ PHILOS 571	Mathematical Logic	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	

1

MATH 375 Topics in Multi-Variable Calculus and Linear Algebra will not meet the requirement if a student already has credit for MATH 234 Calculus--Functions of Several Variables, MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra.

**ADVANCED COMPUTER SCIENCE COURSES  
THEORY OF COMPUTER SCIENCE**

Code	Title	Credits
<b>Complete one:</b>		
COMP SCI 577	Introduction to Algorithms	<b>3</b>
COMP SCI 520	Introduction to Theory of Computing	

**SOFTWARE & HARDWARE**

Code	Title	Credits
<b>Complete two:</b>		
COMP SCI 407	Foundations of Mobile Systems and Applications	<b>6-8</b>
COMP SCI/ E C E 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers	
or COMP SCI 531	Introduction to the Theory and Design of Programming Languages	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 542	Introduction to Software Security	
COMP SCI 544	Introduction to Big Data Systems	
COMP SCI/ E C E 552	Introduction to Computer Architecture	
COMP SCI 564	Database Management Systems: Design and Implementation	

COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security

**APPLICATIONS**

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COMP SCI 412	Introduction to Numerical Methods <sup>1</sup>	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI 534	Computational Photography	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 545	Natural Language and Computing	
COMP SCI 559	Computer Graphics	
COMP SCI 566	Introduction to Computer Vision	
COMP SCI 570	Introduction to Human-Computer Interaction	
COMP SCI 571	Building User Interfaces	

**2**

In every case, a course used toward one requirement may not be used again toward another requirement. For example, if COMP SCI 412 is applied to the ADDITIONAL MATH (BEYOND CALCULUS) requirement, it cannot also apply to the APPLICATIONS requirement.

**ELECTIVES**

Code	Title	Credits
<b>Complete two:</b>		<b>6-8</b>
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ STAT 471	Introduction to Computational Statistics	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/DS/ I SY E 518	Wearable Technology	
COMP SCI 520	Introduction to Theory of Computing	

COMP SCI/E C E/  
I SY E 524

COMP SCI/I SY E/  
MATH/STAT 525

COMP SCI/  
I SY E 526

COMP SCI/E C E/  
M E 532

COMP SCI/  
E C E 533

COMP SCI 534

COMP SCI 536

COMP SCI 537

COMP SCI 538

COMP SCI/E C E/  
M E 539

COMP SCI 540

COMP SCI 542

COMP SCI 545

COMP SCI/  
E C E 552

COMP SCI/I SY E/  
M E 558

COMP SCI 559

COMP SCI/  
E C E 561

COMP SCI 564

COMP SCI/  
B M I 567

COMP SCI 570

COMP SCI 571

COMP SCI/  
B M I 576

COMP SCI 577

COMP SCI/  
DS 579

COMP SCI/  
I SY E 635

COMP SCI 640

COMP SCI 642

COMP SCI 639

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all COMP SCI courses and courses counting toward the major
- 2.000 GPA on 15 upper-level credits, taken in residence<sup>3</sup>
- 15 credits in COMP SCI, taken on campus



3

COMP SCI courses numbered 400 through 699 count as Upper Level.

## HONORS IN THE MAJOR

Students may declare Honors in the Computer Sciences Major in consultation with the Computer Sciences undergraduate coordinator(s). To earn Honors in the Major in Computer Sciences, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a minimum 3.300 University GPA
- Earn a minimum 3.500 GPA for all COMP SCI and major courses
- Complete one COMP SCI course numbered 500 through 699, taken for Honors with a grade of B or higher
- Complete COMP SCI 681 and COMP SCI 682 for a total of 6 credits. <sup>4</sup>

4

Senior Honors Thesis proposal must be approved by both the thesis/project advisor and the department undergraduate coordinator before enrollment in COMP SCI 681. A final thesis or project must be completed before a final grade for COMP SCI 682 can be awarded.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize and apply the core principles of Computing (abstractions and algorithms) to solve real-world problems.
2. Describe and apply the theoretical foundations of Computer Science (e.g., complexity analysis) in practical settings.
3. Demonstrate knowledge of key elements of computer systems, e.g., hardware, operating systems, networks.
4. Use fundamental and detailed knowledge, skills, and tools (e.g., specific algorithms, techniques methods, etc.) of computer science and develop the ability to acquire new knowledge, skills, and tools.

5. Design, implement, and evaluate software in multiple programming paradigms and languages.
6. Develop a substantial piece of software, and recognize the challenges of designing and developing software.
7. Exhibit technical (designing, implementing, and testing) and teamwork (communication, collaboration, and professional practice) skills in order to develop solutions as a computer science practitioner.
8. Can solve problems by applying a broad toolbox of knowledge and techniques.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COMP SCI 200	3	COMP SCI 300	3
COMP SCI 304 (optional companion course)	1	MATH 222	4
MATH 221	5	Ethnic Studies	3
Communications Part A	3	Second Semester Language	4
First-Semester Language	4		
	<b>16</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
COMP SCI 400	3	COMP SCI/E C E 354	3
COMP SCI/E C E 252	3	COMP SCI/MATH 240	3
Additional Math Beyond Calculus (MATH 340 recommended)	3	INTER-LS 210	1
Third Semester Language	4	Communication Part B	3
Social Science Breadth	3	Fourth Semester Language	4
	<b>16</b>		<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
COMP SCI Theory (COMP SCI 577 recommended)	3-4	COMP SCI Software/Hardware	3-4
Additional Math (STAT 324 recommended)	3	COMP SCI Applications	3
Humanities Breadth	3	Literature Breadth	3
Social Science Breadth	3	Biological Science Breadth	3

Elective	3 Elective	3
<b>15</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>Credits Spring</b>	<b>Credits</b>
COMP SCI Software/ Hardware	3-4 COMP SCI Elective	3
COMP SCI Elective	3 Physical Science Breadth	3
Humanities Breadth	3 Literature Breadth	3
Social Science Breadth	3 Social Science Breadth	3
Elective	3 Elective	3
<b>15</b>		<b>15</b>
<b>Total Credits 120</b>		

## ADVISING AND CAREERS

### ADVISING

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the computer sciences major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/undergraduate/undergraduate-advisors/>).

### CAREERS

Demand for those with a computer sciences education is exceptionally strong. According to figures from the U.S. Bureau of Labor Statistics, the vast majority of growth in STEM (science, technology, engineering, and math) occupations through 2020 will occur within computing fields.

Computer sciences majors are encouraged to begin working on their career exploration and preparation soon after arriving on campus to explore different career paths, participate in co-ops or summer internships, prepare for the job search and/or graduate school applications, and network with professionals in the field.

**Department of Computer Sciences:** the department hosts one major career fair (<https://www.cs.wisc.edu/connect/job-fair/>) per year, in the fall, as well as other opportunities to connect with employers, such as technical talks and information sessions.

**SuccessWorks at the College of Letters & Science:** SuccessWorks offers two major career fairs per year, assists with resume writing and interviewing skills, and offers individual career advising appointments for L&S students.

**Engineering Career Services (ECS):** ECS (<https://ecs.engr.wisc.edu/public/>) offers two major career fairs per year, assists with resume writing and interviewing skills, and hosts workshops on the job search.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

Visit the CS website to view our department faculty (<https://www.cs.wisc.edu/people/faculty/>) and staff (<https://www.cs.wisc.edu/people/staff/>).

### RESOURCES AND SCHOLARSHIPS

Visit Scholarships@UW-Madison (<https://scholarships.wisc.edu/Scholarships/>) to find UW-Madison scholarships and apply online.

Visit the scholarships page (<https://www.cs.wisc.edu/academics/scholarships/>) on the Department of Computer Sciences website for a compendium of opportunities available to students studying computer sciences.

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## HOW TO GET IN

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To declare the computer sciences major, students must meet the following requirements<sup>1</sup>:

- Completion of COMP SCI 300 and either MATH 222 or MATH 276
- Grade of BC or higher in one of these introductory programming courses, taken at UW-Madison: COMP SCI 300, COMP SCI/ E C E 354 or COMP SCI 400
- 2.250 GPA or higher among the first completed attempts of these courses: COMP SCI 300 and either MATH 222 or MATH 276

1

For purposes of computer sciences major declaration requirements, GPA is calculated with UW-Madison courses only and does include the first attempt of all eligible major declaration coursework completed at time of submitting major declaration request. Repeated coursework is not included.

If a student needs additional coursework to meet the 2.250 GPA requirement, COMP SCI/MATH 240, COMP SCI/E C E 354, and/or COMP SCI 400 Programming III may also be used.

Students having difficulties meeting the above requirements should schedule a meeting with a computer sciences advisor.

For instructions on declaring the major, see the Department of Computer Sciences website (<https://www.cs.wisc.edu/undergraduate/ba-bs-in-compsci/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR BASIC COMPUTER SCIENCES

Code	Title	Credits
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	3
COMP SCI/ E C E 252	Introduction to Computer Engineering	3
COMP SCI 300	Programming II	3
COMP SCI/ E C E 354	Machine Organization and Programming	3
COMP SCI 400	Programming III	3
<b>Total Credits</b>		<b>15</b>

## BASIC CALCULUS

Code	Title	Credits
<b>Complete one of these sequences:</b>		<b>9-14</b>
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	
<b>Total Credits</b>		<b>9-14</b>

## ADDITIONAL MATHEMATICS (BEYOND CALCULUS)

Code	Title	Credits
<b>Complete two courses for at least 6 credits:</b>		<b>6-10</b>
MATH 340 or MATH 375	Elementary Matrix and Linear Algebra <sup>1</sup> Topics in Multi-Variable Calculus and Linear Algebra	
STAT 324	Introductory Applied Statistics for Engineers	
COMP SCI 412	Introduction to Numerical Methods <sup>2</sup>	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI/ I SY E 526	Advanced Linear Programming	
E C E 331	Introduction to Random Signal Analysis and Statistics	

MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 319	Techniques in Ordinary Differential Equations	
MATH 320	Linear Algebra and Differential Equations <sup>1</sup>	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 331	Introductory Probability	
MATH 341	Linear Algebra	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 443	Applied Linear Algebra	
MATH 461	College Geometry I	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
MATH 521	Analysis I	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 567	Modern Number Theory	
MATH/ PHILOS 571	Mathematical Logic	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	

<sup>1</sup>

MATH 375 Topics in Multi-Variable Calculus and Linear Algebra will not meet the requirement if a student already has credit for MATH 234 Calculus--Functions of Several Variables, MATH 320 Linear Algebra and Differential Equations or MATH 340 Elementary Matrix and Linear Algebra.

## ADVANCED COMPUTER SCIENCE COURSES THEORY OF COMPUTER SCIENCE

Code	Title	Credits
<b>Complete one:</b>		<b>3</b>
COMP SCI 577	Introduction to Algorithms	
COMP SCI 520	Introduction to Theory of Computing	

**SOFTWARE & HARDWARE**

Code	Title	Credits
<b>Complete two: 6-8</b>		
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI 536	Introduction to Programming Languages and Compilers	
	or COMP SCI 531 Introduction to the Theory and Design of Programming Languages	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 542	Introduction to Software Security	
COMP SCI 544	Introduction to Big Data Systems	
COMP SCI/ E C E 552	Introduction to Computer Architecture	
COMP SCI 564	Database Management Systems: Design and Implementation	
COMP SCI 640	Introduction to Computer Networks	
COMP SCI 642	Introduction to Information Security	

**APPLICATIONS**

Code	Title	Credits
<b>Complete one: 3</b>		
COMP SCI 412	Introduction to Numerical Methods <sup>1</sup>	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI 534	Computational Photography	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 545	Natural Language and Computing	
COMP SCI 559	Computer Graphics	
COMP SCI 566	Introduction to Computer Vision	
COMP SCI 570	Introduction to Human-Computer Interaction	
COMP SCI 571	Building User Interfaces	

2

In every case, a course used toward one requirement may not be used again toward another requirement. For example, if COMP SCI 412 is applied to the ADDITIONAL MATH (BEYOND CALCULUS) requirement, it cannot also apply to the APPLICATIONS requirement.

**ELECTIVES**

Code	Title	Credits
<b>Complete two: 6-8</b>		
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI 412	Introduction to Numerical Methods	

COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ STAT 471	Introduction to Computational Statistics	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/DS/ I SY E 518	Wearable Technology	
COMP SCI 520	Introduction to Theory of Computing	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI/ I SY E 526	Advanced Linear Programming	
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	
COMP SCI/ E C E 533	Image Processing	
COMP SCI 534	Computational Photography	
COMP SCI 536	Introduction to Programming Languages and Compilers	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 538	Introduction to the Theory and Design of Programming Languages	
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 542	Introduction to Software Security	
COMP SCI 545	Natural Language and Computing	
COMP SCI/ E C E 552	Introduction to Computer Architecture	
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	
COMP SCI 559	Computer Graphics	
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning	
COMP SCI 564	Database Management Systems: Design and Implementation	
COMP SCI/ B M I 567	Medical Image Analysis	
COMP SCI 570	Introduction to Human-Computer Interaction	
COMP SCI 571	Building User Interfaces	
COMP SCI/ B M I 576	Introduction to Bioinformatics	
COMP SCI 577	Introduction to Algorithms	

COMP SCI/ DS 579	Virtual Reality
COMP SCI/ I SY E 635	Tools and Environments for Optimization
COMP SCI 640	Introduction to Computer Networks
COMP SCI 642	Introduction to Information Security
COMP SCI 639	Undergraduate Elective Topics in Computing

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all COMP SCI courses and courses counting toward the major
- 2.000 GPA on 15 upper-level credits, taken in residence<sup>3</sup>
- 15 credits in COMP SCI, taken on campus

3

COMP SCI courses numbered 400 through 699 count as Upper Level.

## HONORS IN THE MAJOR

Students may declare Honors in the Computer Sciences Major in consultation with the Computer Sciences undergraduate coordinator(s). To earn Honors in the Major in Computer Sciences, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a minimum 3.300 University GPA
- Earn a minimum 3.500 GPA for all COMP SCI and major courses
- Complete one COMP SCI course numbered 500 through 699, taken for Honors with a grade of B or higher
- Complete COMP SCI 681 and COMP SCI 682 for a total of 6 credits.<sup>4</sup>

4

Senior Honors Thesis proposal must be approved by both the thesis/project advisor and the department undergraduate coordinator before enrollment in COMP SCI 681. A final thesis or project must be completed before a final grade for COMP SCI 682 can be awarded.

## LEARNING OUTCOMES

1. Recognize and apply the core principles of Computing (abstractions and algorithms) to solve real-world problems.
2. Describe and apply the theoretical foundations of Computer Science (e.g., complexity analysis) in practical settings.
3. Demonstrate knowledge of key elements of computer systems, e.g., hardware, operating systems, networks.
4. Use fundamental and detailed knowledge, skills, and tools (e.g., specific algorithms, techniques methods, etc.) of computer science and develop the ability to acquire new knowledge, skills, and tools.
5. Design, implement, and evaluate software in multiple programming paradigms and languages.
6. Develop a substantial piece of software, and recognize the challenges of designing and developing software.

7. Exhibit technical (designing, implementing, and testing) and teamwork (communication, collaboration, and professional practice) skills in order to develop solutions as a computer science practitioner.
8. Can solve problems by applying a broad toolbox of knowledge and techniques.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
COMP SCI 200	3	COMP SCI 300	3
COMP SCI 304 (optional companion course)	1	MATH 222	4
MATH 221	5	Ethnic Studies	3
Communications Part A	3	Second Semester Language	4
First-Semester Language	4		
	<b>16</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
COMP SCI 400	3	COMP SCI/E C E 354	3
COMP SCI/E C E 252	3	COMP SCI/MATH 240	3
Additional Math Beyond Calculus (MATH 340 recommended)	3	INTER-LS 210	1
Third Semester Language	4	Communication Part B	3
Social Science Breadth	3	Fourth Semester Language	4
	<b>16</b>		<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
COMP SCI Theory (COMP SCI 577 recommended)	3-4	COMP SCI Software/ Hardware	3-4
Additional Math (STAT 324 recommended)	3	COMP SCI Applications	3
Humanities Breadth	3	Literature Breadth	3
Social Science Breadth	3	Biological Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
COMP SCI Software/ Hardware		3-4 COMP SCI Elective	3
COMP SCI Elective	3	Physical Science Breadth	3
Humanities Breadth	3	Literature Breadth	3
Social Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the computer sciences major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/undergraduate/undergraduate-advisors/>).

**CAREERS**

Demand for those with a computer sciences education is exceptionally strong. According to figures from the U.S. Bureau of Labor Statistics, the vast majority of growth in STEM (science, technology, engineering, and math) occupations through 2020 will occur within computing fields.

Computer sciences majors are encouraged to begin working on their career exploration and preparation soon after arriving on campus to explore different career paths, participate in co-ops or summer internships, prepare for the job search and/or graduate school applications, and network with professionals in the field.

**Department of Computer Sciences:** the department hosts one major career fair (<https://www.cs.wisc.edu/connect/job-fair/>) per year, in the fall, as well as other opportunities to connect with employers, such as technical talks and information sessions.

**SuccessWorks at the College of Letters & Science:** SuccessWorks offers two major career fairs per year, assists with resume writing and interviewing skills, and offers individual career advising appointments for L&S students.

**Engineering Career Services (ECS):** ECS (<https://ecs.engr.wisc.edu/public/>) offers two major career fairs per year, assists with resume writing and interviewing skills, and hosts workshops on the job search.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Visit the CS website to view our department faculty (<https://www.cs.wisc.edu/people/faculty/>) and staff (<https://www.cs.wisc.edu/people/staff/>).

**RESOURCES AND SCHOLARSHIPS**

Visit Scholarships@UW-Madison (<https://scholarships.wisc.edu/Scholarships/>) to find UW-Madison scholarships and apply online.

Visit the scholarships page (<https://www.cs.wisc.edu/academics/scholarships/>) on the Department of Computer Sciences website for a compendium of opportunities available to students studying computer sciences.

**COMPUTER SCIENCES, CERTIFICATE**

Regardless of your major, you can **enhance your career** with a background in computer sciences. The computer sciences certificate is designed to **deepen and validate your computing savvy** for your future career prospects and/or graduate school. Compared to a major in computer sciences, the certificate requires fewer courses and offers more **flexibility in course selection**.

**HOW TO GET IN**

All undergraduate, degree-seeking students are eligible to declare the computer sciences certificate, except for students majoring in Computer Sciences and Computer Engineering.

**DECLARATION REQUIREMENTS**

To declare the computer sciences certificate, students must meet the following requirements:

- Completion of COMP SCI 300
- Grade of BC or higher in one of these introductory programming course, taken at UW-Madison: COMP SCI 300, COMP SCI/E C E 354 or COMP SCI 400

Students having difficulties meeting the above requirements should schedule a meeting with a computer sciences advisor to discuss alternatives.

For instructions on declaring the certificate, see the Department of Computer Sciences website (<https://www.cs.wisc.edu/undergraduate/certificate-in-computer-sciences/>).

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Five courses and at least 14 credits from: <sup>1</sup>

Code	Title	Credits
COMP SCI 300	Programming II	3
<b>Two courses numbered 400-679:</b>		<b>6-8</b>
COMP SCI 400	Programming III	
COMP SCI 407	Foundations of Mobile Systems and Applications	
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ STAT 471	Introduction to Computational Statistics	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ E C E 506	Software Engineering	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI/DS/ I SY E 518	Wearable Technology	
COMP SCI 520	Introduction to Theory of Computing	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI/ I SY E 526	Advanced Linear Programming	
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	

COMP SCI/ E C E 533	Image Processing	
COMP SCI 534	Computational Photography	
COMP SCI 536	Introduction to Programming Languages and Compilers	
COMP SCI 537	Introduction to Operating Systems	
COMP SCI 538	Introduction to the Theory and Design of Programming Languages	
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 542	Introduction to Software Security	
COMP SCI 544	Introduction to Big Data Systems	
COMP SCI 545	Natural Language and Computing	
COMP SCI/ E C E 552	Introduction to Computer Architecture	
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	
COMP SCI 559	Computer Graphics	
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning	
COMP SCI 564	Database Management Systems: Design and Implementation	
COMP SCI 566	Introduction to Computer Vision	
COMP SCI/ B M I 567	Medical Image Analysis	
COMP SCI 570	Introduction to Human-Computer Interaction	
COMP SCI 571	Building User Interfaces	
COMP SCI/ B M I 576	Introduction to Bioinformatics	
COMP SCI 577	Introduction to Algorithms	
COMP SCI/ DS 579	Virtual Reality	
COMP SCI/ I SY E 635	Tools and Environments for Optimization	
COMP SCI 640	Introduction to Computer Networks	
COMP SCI 642	Introduction to Information Security	
COMP SCI 639	Undergraduate Elective Topics in Computing	
<b>Two additional courses, chosen from courses numbered 400-679 (above) or these:</b>		<b>5-8</b>
COMP SCI/ MATH 240	Introduction to Discrete Mathematics	
COMP SCI/ E C E 252	Introduction to Computer Engineering	
COMP SCI 270	Fundamentals of Human-Computer Interaction	
COMP SCI/ E C E 352	Digital System Fundamentals	
COMP SCI 310	Problem Solving Using Computers	
COMP SCI 320	Data Science Programming II	



COMP SCI/  
E C E 354Machine Organization and  
Programming**Total Credits****14**

1

Courses taken Pass/Fail do not meet requirements of the Certificate.

## RESIDENCE AND QUALITY OF WORK

- At least 7 Certificate credits must be completed in Residence
- Minimum 2.000 GPA on all COMP SCI and Certificate courses

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATE

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW-Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. Recognize and apply the core principles of Computing (abstractions and algorithms) to solve real-world problems.
2. Use fundamental and detailed knowledge, skills, and tools (e.g., specific algorithms, techniques methods, etc.) of computer science and develop the ability to acquire new knowledge, skills, and tools.
3. Design, implement, and evaluate software in multiple programming paradigms and languages.
4. Can solve problems by applying a broad toolbox of knowledge and techniques.

## ADVISING AND CAREERS

### ADVISING

The undergraduate coordinators in the Department of Computer Sciences are ready to help students with questions about the major, L&S degree requirements and policy, and course selection. Information on academic advising for students interested or declared in the computer sciences major is posted to the Computer Sciences advising page (<https://www.cs.wisc.edu/undergraduate/undergraduate-advisors/>).

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Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Visit the CS website to view our department faculty (<https://www.cs.wisc.edu/people/faculty/>) and staff (<https://www.cs.wisc.edu/people/staff/>).

## ECONOMICS

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environments. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

The analytical method of economics recognizes that various choices are open to a society in solving its economic problems. Students are often attracted to economics as a discipline precisely because they want to understand the decisions of people and businesses and to better understand and evaluate economic policy. To begin to approach these issues as an economist requires an understanding of economic theory, empirical methodology, and an understanding of the institutional details and advanced practice gained from intensive study of specific subfields of economics. Consequently, the undergraduate economics major is organized around a progression of courses that first provides a broad introduction to economics, then develops the theoretical tools that provide the foundation of modern economic thought, and finishes with advanced courses designed to provide greater in-depth knowledge of specific fields (such as labor markets, industrial organization, international

economics, public finance, banking and finance, macroeconomics, microeconomics, and econometrics).

An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. Economics graduates go on to pursue careers in a variety of fields including finance, data analytics, and public policy. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## DEGREES/MAJORS/CERTIFICATES

- Economic Analytics, Certificate (p. 683)
- Economics, B.A. (p. 685)
- Economics, B.S. (p. 694)

## PEOPLE

### FACULTY

- Aizawa, Naoki, Assistant Professor  
Labor Economics, Health Economics, Public Economics
- Blank, Rebecca, Professor  
Public Economics, Labor Economics
- Boerma, Job, Assistant Professor  
Macroeconomics, Public Finance
- Braxton Carter, Assistant Professor  
Macroeconomics, Labor Economics, Consumer Finance
- Chiang, Harold, Assistant Professor  
Econometrics
- Corbae, Dean, Professor  
Macroeconomics
- Coulibaly, Louphou, Assistant Professor  
International Finance and Macroeconomics, Monetary Economics
- Deneckere, Raymond, Professor  
Microeconomic Theory, Industrial Organization
- Engel, Charles, Professor  
International Economics, Macroeconomics
- Fu, Chao, Professor  
Labor Economics
- Gregory, Jesse, Associate Professor  
Labor Economics, Public Economics
- Hansen, Bruce, Professor  
Econometrics
- Hendricks, Kennan, Professor  
Industrial Organization
- Houde, Jean-Francois, Professor
- Kirpalani, Rishabh, Assistant Professor  
Macroeconomics, Public Finance, International Economics, Financial Economics
- Lentz, Rasmus, Professor  
Labor Economics, Macroeconomics, Microeconomics
- Magnolfi, Lorenzo, Assistant Professor  
Industrial Organization, Applied Microeconomics, Applied Econometrics
- Martellini, Paolo, Assistant Professor  
Macroeconomics, Labor Economics, Urban Economics
- Mommaerts, Corina, Assistant Professor  
Public Economics, Labor Economics
- O'Connell, Martin, Assistant Professor  
Public Economics, Industrial Organization
- Porter, Jack, Professor  
Econometrics
- Quint, Daniel, Associate Professor  
Microeconomic Theory, Industrial Organization
- Rostek, Marzena, Professor  
Microeconomic Theory, Market Design, Finance
- Ruhl, Kim, Professor  
International Economics
- Scholz, John Karl, Professor  
Public Economics
- Seshadri, Ananth, Professor  
Macroeconomics, Public Finance
- Shi, Xiaoxia, Professor  
Econometrics
- Smith, Jeffrey, Professor  
Labor Economics, Public Economics
- Smith, Lones, Professor  
Microeconomic Theory
- Soelvsten, Mikkel, Assistant Professor  
Econometrics
- Sorensen, Alan, Professor  
Industrial Organization
- Sullivan, Christopher, Assistant Professor  
Industrial Organization, Applied Microeconomics
- Taber, Christopher, Professor  
Labor Economics, Applied Econometrics, Public Economics
- Walker, James, Professor  
Labor Economics, Econometrics
- Weretka, Marek, Associate Professor  
Economic Theory, Finance
- West, Kenneth, Professor  
Macroeconomics, Econometrics
- Williams, Noah, Professor  
Macroeconomics
- Wiswall, Matthew, Professor  
Applied Microeconomics, Applied Econometrics, Labor Economics, Education and Demographic Economics
- Wright, Randall, Professor  
Macroeconomics, Finance

### AFFILIATED FACULTY

- Chang, Briana  
Financial Intermediation, Information Frictions, Search and Matching Theory
- Chinn, Menzie
- Chung, Kevin  
Quantitative Marketing
- Montgomery, James  
Economic Sociology, Religion, General Social Theory, Demography and Ecology, Social Psychology and Microsociology
- Sarada

Economics of Entrepreneurship and Innovation

- Schechter, Laura  
Development Economics, Behavioral and Experimental Economics,  
Risk Analysis
- Smeeding, Timothy  
Poverty, Intergenerational Mobility, Inequality, Wealth

## INSTRUCTIONAL STAFF

- Alder, Simeon, Faculty Associate  
Macroeconomics, Growth and Development, Matching
- Bykhovskaya, Anna, Associate Lecturer
- Chan, Stella, Lecturer
- Eudey, Gwen, Senior Lecturer  
Open Economy Macroeconomics
- Friedman, Matthew, Lecturer
- Glawtschew, Rebecca, Lecturer
- Hansen, David, Lecturer  
Development Economics and Labor Economics
- Hansen, Korinna, Senior Lecturer  
Applied Microeconomics, Health Economics
- Johnson, David, Senior Lecturer
- Kelly, Elizabeth, Faculty Associate
- McKelvey, Christopher, Lecturer  
Development Economics
- Muniagurria, Maria, Faculty Associate  
Development Economics and International Trade
- Pac, Gregory, Senior Lecturer
- Pauley, Gwyn, Lecturer  
Health Economics, Labor Economics
- Rick, Steven, Senior Lecturer

For a public directory of our faculty, please visit the Faculty page (<https://econ.wisc.edu/faculty/>) on our website.

## ECONOMIC ANALYTICS, CERTIFICATE

The Department of Economics is happy to announce its Certificate in Economic Analytics. When analyzing data, economists use many of the same statistical tools as other disciplines. However, economists have a tradition of formally combining data analysis with economic models, giving a different perspective on data and how to think about data analysis. This certificate will introduce non-Economics majors to this economic approach to data analytics.

An economist's approach to data analysis has two distinguishing features. First, economists traditionally interpret observational data through the lens of an economic model. This often leads to an explicit derivation of the data-generating process, typically involving individual optimization. Second, economists tend to focus on identification and causal inference more than many other disciplines. This involves looking for combinations of data and empirical approaches that allow empirical relationships to be interpreted causally.

This certificate will introduce students to this perspective and these tools, by teaching students a mix of microeconomic theory, statistics and econometrics, and hands-on experience analyzing real data.

## HOW TO GET IN

There are no prerequisites to declaring the certificate; students are encouraged to declare as soon as they are comfortable. Declaration of the certificate occurs via an online form, but students are encouraged to schedule a meeting with an Economics advisor.

Economics majors are not eligible to declare this certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires at least 14 credits, from:

Code	Title	Credits
<b>Complete one option from each category:</b>		
<i>Microeconomics (complete one course):</i>		3-4
ECON 301	Intermediate Microeconomic Theory	
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	
<i>Statistics (complete one option):</i>		4-8
ECON 310	Statistics: Measurement in Economics	
STAT 240 & STAT 340	Data Science Modeling I and Data Science Modeling II	
STAT 303 & STAT 333	R for Statistics I and Applied Regression Analysis	
<i>Econometrics (complete one course)</i>		4
ECON 400	Introduction to Applied Econometrics	
ECON 410	Introductory Econometrics	
<i>Data-Related Economics Elective (complete one course):</i>		3-4
ECON 460	Economic Forecasting	
ECON 570	Fundamentals of Data Analytics for Economists	
ECON 695	Topics in Economic Data Analysis	
<b>Total Credits</b>		<b>14</b>

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 7 credits must be taken in residence at UW-Madison

## CERTIFICATION COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. apply microeconomic models to understand and interpret individual behavior and market outcomes as the result of individual optimization
2. estimate the value of unknown parameters and test theories using formal hypothesis tests
3. summarize the conditions required for a statistical association to represent a causal relationship; evaluate the extent to which those conditions hold in particular settings; interpret the results when those conditions don't hold
4. download, clean, and analyze large economic datasets using modern statistical software

## ADVISING AND CAREERS

### ACADEMIC ADVISING

If you are wondering how this certificate can fit into your academic plans or help with your career goals, be sure to meet with an advisor.

Our academic advisors (<https://econ.wisc.edu/undergraduate/academic-advising/>) can help you create an academic plan and ensure you are making the most of your academic experience.

Find us on the campus map ([https://www.map.wisc.edu/?initObj=bdg\\_SocSc&z=41.33&x=-0.158401&y=-0.09157](https://www.map.wisc.edu/?initObj=bdg_SocSc&z=41.33&x=-0.158401&y=-0.09157)).

Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu)

Phone: 608-262-6925

### ECONOMICS CAREER DEVELOPMENT OFFICE

The Economics Career Development Office (<https://econ.wisc.edu/careers/>) (ECDO) provides career advising to help economics students explore career options and search for jobs and internships including reviewing application materials (cover letter and resume). Career advisors work with students to develop an individualized job/internship strategy based on the student's background and career goals. Career advising is open to declared economics majors, anyone considering majoring in economics, or students pursuing the Economic Analytics certificate who would like economics-specific career advice. Set up an appointment (<https://econ.wisc.edu/careers/get-career-advice/>) or email your questions to [econcareers@ssc.wisc.edu](mailto:econcareers@ssc.wisc.edu).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

- Aizawa, Naoki, Assistant Professor  
Labor Economics, Health Economics, Public Economics
- Blank, Rebecca, Professor  
Public Economics, Labor Economics
- Boerma, Job, Assistant Professor  
Macroeconomics, Public Finance
- Braxton Carter, Assistant Professor  
Macroeconomics, Labor Economics, Consumer Finance
- Chiang, Harold, Assistant Professor  
Econometrics
- Corbae, Dean, Professor  
Macroeconomics
- Coulibaly, Louphou, Assistant Professor  
International Finance and Macroeconomics, Monetary Economics
- Deneckere, Raymond, Professor  
Microeconomic Theory, Industrial Organization
- Engel, Charles, Professor  
International Economics, Macroeconomics
- Fu, Chao, Professor  
Labor Economics
- Gregory, Jesse, Associate Professor  
Labor Economics, Public Economics
- Hansen, Bruce, Professor  
Econometrics
- Hendricks, Kennan, Professor  
Industrial Organization
- Houde, Jean-Francois, Professor
- Kirpalani, Rishabh, Assistant Professor  
Macroeconomics, Public Finance, International Economics, Financial Economics
- Lentz, Rasmus, Professor  
Labor Economics, Macroeconomics, Microeconomics
- Magnolfi, Lorenzo, Assistant Professor  
Industrial Organization, Applied Microeconomics, Applied Econometrics
- Martellini, Paolo, Assistant Professor

- Macroeconomics, Labor Economics, Urban Economics
- Mommaerts, Corina, Assistant Professor  
Public Economics, Labor Economics
- O'Connell, Martin, Assistant Professor  
Public Economics, Industrial Organization
- Porter, Jack, Professor  
Econometrics
- Quint, Daniel, Associate Professor  
Microeconomic Theory, Industrial Organization
- Rostek, Marzena, Professor  
Microeconomic Theory, Market Design, Finance
- Ruhl, Kim, Professor  
International Economics
- Scholz, John Karl, Professor  
Public Economics
- Seshadri, Ananth, Professor  
Macroeconomics, Public Finance
- Shi, Xiaoxia, Professor  
Econometrics
- Smith, Jeffrey, Professor  
Labor Economics, Public Economics
- Smith, Lones, Professor  
Microeconomic Theory
- Soelvesten, Mikkel, Assistant Professor  
Econometrics
- Sorensen, Alan, Professor  
Industrial Organization
- Sullivan, Christopher, Assistant Professor  
Industrial Organization, Applied Microeconomics
- Taber, Christopher, Professor  
Labor Economics, Applied Econometrics, Public Economics
- Walker, James, Professor  
Labor Economics, Econometrics
- Weretka, Marek, Associate Professor  
Economic Theory, Finance
- West, Kenneth, Professor  
Macroeconomics, Econometrics
- Williams, Noah, Professor  
Macroeconomics
- Wiswall, Matthew, Professor  
Applied Microeconomics, Applied Econometrics, Labor Economics,  
Education and Demographic Economics
- Wright, Randall, Professor  
Macroeconomics, Finance

## AFFILIATED FACULTY

- Chang, Briana  
Financial Intermediation, Information Frictions, Search and Matching  
Theory
- Chinn, Menzie
- Chung, Kevin  
Quantitative Marketing
- Montgomery, James  
Economic Sociology, Religion, General Social Theory, Demography  
and Ecology, Social Psychology and Microsociology
- Sarada

- Economics of Entrepreneurship and Innovation
- Schechter, Laura  
Development Economics, Behavioral and Experimental Economics,  
Risk Analysis
- Smeeding, Timothy  
Poverty, Intergenerational Mobility, Inequality, Wealth

## INSTRUCTIONAL STAFF

- Alder, Simeon, Faculty Associate  
Macroeconomics, Growth and Development, Matching
- Bykhovskaya, Anna, Associate Lecturer
- Chan, Stella, Lecturer
- Eudey, Gwen, Senior Lecturer  
Open Economy Macroeconomics
- Friedman, Matthew, Lecturer
- Glawtschew, Rebecca, Lecturer
- Hansen, David, Lecturer  
Development Economics and Labor Economics
- Hansen, Korinna, Senior Lecturer  
Applied Microeconomics, Health Economics
- Johnson, David, Senior Lecturer
- Kelly, Elizabeth, Faculty Associate
- McKelvey, Christopher, Lecturer  
Development Economics
- Muniagurria, Maria, Faculty Associate  
Development Economics and International Trade
- Pac, Gregory, Senior Lecturer
- Pauley, Gwyn, Lecturer  
Health Economics, Labor Economics
- Rick, Steven, Senior Lecturer

For a public directory of our faculty, please visit the Faculty page (<https://econ.wisc.edu/faculty/>) on our website.

## ECONOMICS, B.A.

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environments. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

The analytical method of economics recognizes that various choices are open to a society in solving its economic problems. Students are often attracted to economics as a discipline precisely because they want to understand the decisions of people and businesses and to better understand and evaluate economic policy. To begin to approach these issues as an economist requires an understanding of economic theory, empirical methodology, and an understanding of the institutional details and advanced practice gained from intensive study of specific subfields of economics. Consequently, the undergraduate economics major is organized around a progression of courses that first provides a broad

introduction to economics, then develops the theoretical tools that provide the foundation of modern economic thought, and finishes with advanced courses designed to provide greater in-depth knowledge of specific fields (such as labor markets, industrial organization, international economics, public finance, banking and finance, macroeconomics, microeconomics, and econometrics).

An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. Economics graduates go on to pursue careers in a variety of fields including finance, data analytics, and public policy. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## HOW TO GET IN

### DECLARING THE MAJOR

- Complete one calculus course (for the Mathematical Emphasis option, MATH 221 or higher is required), and
- Complete any one ECON course (except ECON 100) at UW–Madison, and
- Achieve a 2.000 GPA in all ECON courses and major courses (i.e., calculus) at the time of declaration.

Students may not be declared in both the Economics major and the Certificate in Economic Analytics.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

<b>Foreign Language</b>	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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<b>L&amp;S Breadth</b>	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
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<b>Depth of Intermediate/Advanced work</b>	Complete at least 60 credits at the intermediate or advanced level.
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<b>Major</b>	Declare and complete at least one major.
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<b>Total Credits</b>	Complete at least 120 credits.
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<b>UW–Madison Experience</b>	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### OPTIONS IN THE MAJOR

The department offers two major options. Students may declare only one option and must complete all requirements including Residence and Quality of Work standards. Options are:

**Option A: Economics** provides a well-rounded major in economics that is valuable for employment following graduation, or subsequent graduate work in business, law, public policy, and related disciplines.

**Option B: Economics—Mathematical Emphasis** provides students with the mathematical and statistical background needed for in-depth study of the analytical aspects of economics. Its requirements are designed to prepare students for graduate study in economics and related fields, or for careers as professional economists in business or government. For specific Mathematical Emphasis requirements, see the section below (p. 688).

## REQUIREMENTS FOR THE ECONOMICS MAJOR

### MATH AND STATISTICS

Code	Title	Credits
<b>Mathematics (complete one):</b>		<b>5-10</b>
MATH 221 or MATH 211 or MATH 275	Calculus and Analytic Geometry I Calculus Topics in Calculus I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
<b>Statistics (complete one):</b>		<b>3-4</b>
ECON 310	Statistics: Measurement in Economics (Recommended)	
STAT 302	Accelerated Introduction to Statistical Methods	
ECON 400	Introduction to Applied Econometrics	
ECON 410	Introductory Econometrics	
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 340	Data Science Modeling II	
<b>Total Credits</b>		<b>8-14</b>

## ECONOMICS

30 credits to include:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (complete one):</b>		<b>4-8</b>
ECON 101 & ECON 102 ECON 111	Principles of Microeconomics and Principles of Macroeconomics Principles of Economics—Accelerated Treatment	
<b>Intermediate Theory (complete one):</b>		<b>6-8</b>
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	

ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ )	
<b>Two Core ECON courses:<sup>1</sup></b>		<b>6-8</b>
ECON 400	Introduction to Applied Econometrics	
ECON 409	Study Abroad in Advanced Economics	
ECON 410	Introductory Econometrics	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 461	International Macroeconomics	
ECON 464	International Trade	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON/ FINANCE 503	Markets with Frictions	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	
ECON/R M I 530	Insuring Life's Risks: Health, Aging, and Policy	
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care	
ECON 570	Fundamentals of Data Analytics for Economists	
ECON 580	Honors Tutorial in Research Project Design	
ECON 621	Markets and Models	
ECON 623	Population Economics	
ECON 661	Issues in International Macroeconomics	
ECON 664	Issues in International Trade	
ECON 666	Issues in International Finance	
ECON 690	Topics in Economics	
ECON 695	Topics in Economic Data Analysis	
<b>Electives</b>		<b>6-14</b>

Complete any Core econ course not used above or one of these courses:

ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON 309	Study Abroad in Intermediate Economics
ECON 315	Data Visualization for Economists
ECON/ FINANCE 320	Investment Theory
ECON 321	Sports Economics
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 355	The Economics of Growing-up and Getting Old
ECON 364	Survey of International Economics
ECON 370	Economics of Poverty and Inequality
ECON/A A E 371	Energy, Resources and Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E 526	Quantitative Methods in Agricultural and Applied Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics

**Total Credits****30**

## REQUIREMENTS FOR THE MATHEMATICAL EMPHASIS:

View as listView as grid

- ECONOMICS: MATHEMATICAL EMPHASIS (P. 692)

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ECON and major courses
- 2.000 GPA on 15 upper-level major credits taken in residence<sup>2</sup>
- 15 credits in ECON, taken on the UW–Madison campus

## HONORS IN THE ECONOMICS MAJOR

To participate in Honors in the Economics Major, students must be declared in the Mathematical Emphasis option. For further information, see the Mathematical Emphasis requirements (p. 692) and consult your Economics undergraduate advisor.

## FOOTNOTES

1

At least two core ECON courses must be taken in residence at UW–Madison, and not via transfer or a UW–Madison Study Abroad program.

2

Intermediate and Advanced level ECON courses are Upper Level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand the fundamental concepts of economics and how those concepts apply to real world issues.



2. Construct and evaluate economic models, their assumptions, and conclusions.
3. Acquire a diverse set of skills and strategies in mathematical reasoning/statistical and computational techniques/deductive logic/problem solving.
4. Use mathematics/computational/statistical techniques to analyze real world situations and policies.
5. Use economic analysis to critically evaluate public policy proposals.

Elective	4 Elective	3
<b>15</b>		<b>15</b>

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students planning to graduate within three years with an Economics major should consult with an advisor (<https://econ.wisc.edu/undergraduate/academic-advising/>) as soon as possible, and should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- ECON 101 Principles of Microeconomics
- Communication Part A
- Quantitative Reasoning Part A
- Placement into MATH 221 Calculus and Analytic Geometry I
- 3 credits of Literature, 3 credits of Biological Science
- 3-4 units of foreign language

Summer coursework is not required to finish in three years, but students planning to finish in three years will find it easier if they take either an intermediate theory course during Summer One or an advanced elective during Summer Two.

#### First Year

Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4	ECON 301	4	ECON 302	4
MATH 221	5	Communication B	4		
Literature Breadth	3	Biological Science Breadth	3		
Physical Science Breadth	3	Elective (Intermediate or Advanced level)	4		
<b>15</b>		<b>15</b>		<b>4</b>	

#### Second Year

Fall	Credits	Spring	Credits	Summer	Credits
ECON 310	4	ECON 400 or 410	4	Summer Internship (optional)	0

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Quantitative Reasoning A	4	ECON 101	4
Communication A	3	Ethnic Studies	3
Foreign Language	4	MATH 221	5
Physical Science Breadth	3	Foreign Language	4
<b>14</b>		<b>16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ECON 102	4	ECON 301	4
Biological Science Breadth	3	ECON 310	4
Foreign Language	4	Humanities Breadth	4
Literature Breadth	3	Foreign Language	4
INTER-LS 210	1		
<b>15</b>		<b>16</b>	

#### Junior

Fall	Credits	Spring	Credits
ECON 302	4	Econometrics (ECON 400 or 410)	4
Economics elective or core econ course	4	Humanities Breadth	3
Literature Breadth	3	Communication B	4
Science Breadth	4	Elective	3
<b>15</b>		<b>14</b>	

#### Senior

Fall	Credits	Spring	Credits
Core econ course	4	Elective	4
Core course	4	Elective	4
Elective	3	Elective	4

Core Econ Course or elective	3 Physical Science Breadth	3
Ethnic Studies/ Humanities Breadth	4 Humanities Breadth	4
Elective (Intermediate or Advanced level)	4 Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	4
	<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Core econ Course	3	Electives (Intermediate or Advanced level)	12
Electives (Intermediate or Advanced level)	11		
	<b>14</b>		<b>12</b>

**Total Credits 90****ADVISING AND CAREERS****ACADEMIC ADVISING**

Academic advising (<https://econ.wisc.edu/undergraduate/academic-advising/>), along with general information about the undergraduate major and coursework, is available in Room 7238 of the Social Science Building. Find us on the campus map ([http://www.map.wisc.edu/?initObj=bdg\\_SocSc&z=41.33&x=-0.158401&y=-0.09157](http://www.map.wisc.edu/?initObj=bdg_SocSc&z=41.33&x=-0.158401&y=-0.09157)).

Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu)

Phone: 608-262-6925

**ECONOMICS CAREER DEVELOPMENT OFFICE**

The Economics Career Development Office (<https://econ.wisc.edu/careers/>) (ECDO) provides career advising to help economics students explore career options and search for jobs and internships including reviewing application materials (cover letter and resume). Career advisors work with students to develop an individualized job/internship search strategy based on the student's background and career goals. Career advising is open to declared economics majors or anyone considering majoring in economics who would like economics-specific career advice. Set up an appointment (<https://econ.wisc.edu/careers/get-career-advice/>) or email your questions to [econcareers@ssc.wisc.edu](mailto:econcareers@ssc.wisc.edu)

**PREPARATION FOR PH.D. PROGRAMS IN ECONOMICS**

Students interested in pursuing graduate study should pursue Option B (mathematical emphasis) and augment the standard curriculum with higher-level mathematics and statistics courses. These may include:

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 421	The Theory of Single Variable Calculus	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	

It is important to consult early in the second year with the undergraduate advisor and/or the faculty member that directs the undergraduate program to design a plan of coursework.

**DIRECTED STUDY**

Directed Study (ECON 698, ECON 699) enables advanced students to pursue economic topics not covered in the regular course offerings. A student interested in Directed Study should prepare a research proposal and/or reading list; specific course requirements are arranged with an instructor who agrees to supervise the directed study project. Enrollment requires the consent of the instructor; a GPA of 3.00 or above in ECON; completion of the Intermediate economic theory courses (ECON 301 & ECON 302); at least one Advanced ECON course; and completion of the department's Directed Study form, available in 7238 Social Science.

**INTERNSHIPS**

Students can earn 1 credit for approved internships appropriate to the study of economics under course ECON 228. Students must enroll for ECON 228 in the same semester/session in which the internship is granted. Students should work a minimum of 100 hours per term. Prerequisites are declaration in the major economics major; a major GPA of 2.200 or higher; completion of at least four ECON courses at UW-Madison; completion of at least one Intermediate Theory course (ECON 301 & ECON 302); a completed application; and departmental approval.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

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Labor Economics, Public Economics
- Hansen, Bruce, Professor  
Econometrics
- Hendricks, Kennan, Professor  
Industrial Organization
- Houde, Jean-Francois, Professor
- Kirpalani, Rishabh, Assistant Professor  
Macroeconomics, Public Finance, International Economics, Financial Economics
- Lentz, Rasmus, Professor  
Labor Economics, Macroeconomics, Microeconomics
- Magnolfi, Lorenzo, Assistant Professor  
Industrial Organization, Applied Microeconomics, Applied Econometrics
- Martellini, Paolo, Assistant Professor  
Macroeconomics, Labor Economics, Urban Economics
- Mommaerts, Corina, Assistant Professor  
Public Economics, Labor Economics
- O'Connell, Martin, Assistant Professor  
Public Economics, Industrial Organization
- Porter, Jack, Professor  
Econometrics
- Quint, Daniel, Associate Professor  
Microeconomic Theory, Industrial Organization
- Rostek, Marzena, Professor  
Microeconomic Theory, Market Design, Finance
- Ruhl, Kim, Professor  
International Economics
- Scholz, John Karl, Professor  
Public Economics
- Seshadri, Ananth, Professor  
Macroeconomics, Public Finance
- Shi, Xiaoxia, Professor  
Econometrics
- Smith, Jeffrey, Professor  
Labor Economics, Public Economics
- Smith, Lones, Professor  
Microeconomic Theory
- Soelvsten, Mikkel, Assistant Professor  
Econometrics
- Sorensen, Alan, Professor  
Industrial Organization
- Sullivan, Christopher, Assistant Professor  
Industrial Organization, Applied Microeconomics
- Taber, Christopher, Professor  
Labor Economics, Applied Econometrics, Public Economics
- Walker, James, Professor  
Labor Economics, Econometrics
- Weretka, Marek, Associate Professor  
Economic Theory, Finance
- West, Kenneth, Professor  
Macroeconomics, Econometrics
- Williams, Noah, Professor  
Macroeconomics
- Wiswall, Matthew, Professor  
Applied Microeconomics, Applied Econometrics, Labor Economics, Education and Demographic Economics
- Wright, Randall, Professor  
Macroeconomics, Finance

### AFFILIATED FACULTY

- Chang, Briana  
Financial Intermediation, Information Frictions, Search and Matching Theory
- Chinn, Menzie
- Chung, Kevin  
Quantitative Marketing
- Montgomery, James  
Economic Sociology, Religion, General Social Theory, Demography and Ecology, Social Psychology and Microsociology
- Sarada  
Economics of Entrepreneurship and Innovation
- Schechter, Laura  
Development Economics, Behavioral and Experimental Economics, Risk Analysis

- Smeeding, Timothy  
Poverty, Intergenerational Mobility, Inequality, Wealth

## INSTRUCTIONAL STAFF

- Alder, Simeon, Faculty Associate  
Macroeconomics, Growth and Development, Matching
- Bykhovskaya, Anna, Associate Lecturer
- Chan, Stella, Lecturer
- Eudey, Gwen, Senior Lecturer  
Open Economy Macroeconomics
- Friedman, Matthew, Lecturer
- Glawtschew, Rebecca, Lecturer
- Hansen, David, Lecturer  
Development Economics and Labor Economics
- Hansen, Korinna, Senior Lecturer  
Applied Microeconomics, Health Economics
- Johnson, David, Senior Lecturer
- Kelly, Elizabeth, Faculty Associate
- McKelvey, Christopher, Lecturer  
Development Economics
- Muniagurria, Maria, Faculty Associate  
Development Economics and International Trade
- Pac, Gregory, Senior Lecturer
- Pauley, Gwyn, Lecturer  
Health Economics, Labor Economics
- Rick, Steven, Senior Lecturer

For a public directory of our faculty, please visit the Faculty page (<https://econ.wisc.edu/faculty/>) on our website.

## ECONOMICS: MATHEMATICAL EMPHASIS

### REQUIREMENTS

## REQUIREMENTS FOR THE MATHEMATICAL EMPHASIS MATHEMATICS & STATISTICS

Code	Title	Credits
<b>Mathematics</b>		
<b>15-16</b>		
<i>Option 1—four courses:</i>		
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	Calculus--Functions of Several Variables	
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
<i>Option 2—Honors sequence (3 courses):</i>		
MATH 275	Topics in Calculus I	
MATH 276	Topics in Calculus II	

MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<b>Statistics (1 course)</b>		<b>3</b>
ECON 310	Statistics: Measurement in Economics (Recommended)	
STAT 302	Accelerated Introduction to Statistical Methods	
ECON 410	Introductory Econometrics	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 340	Data Science Modeling II	
<b>Total Credits</b>		<b>18-19</b>

## ECONOMICS

30 credits to include:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (complete one):</b>		<b>4-8</b>
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics- Accelerated Treatment	
<b>Intermediate Theory (complete one):</b>		<b>6-8</b>
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ )	
<b>Introductory Econometrics</b>		
ECON 410	Introductory Econometrics	4
<b>Three Core ECON courses:<sup>1</sup></b>		<b>6-12</b>
ECON 409	Study Abroad in Advanced Economics	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 461	International Macroeconomics	
ECON 464	International Trade	
ECON 467	International Industrial Organizations	

ECON 468	Industrial Organization and Imperfect Competition
ECON 475	Economics of Growth
ECON/ FINANCE 503	Markets with Frictions
ECON 521	Game Theory and Economic Analysis
ECON 522	Law and Economics
ECON/R M I 530	Insuring Life's Risks: Health, Aging, and Policy
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care
ECON 570	Fundamentals of Data Analytics for Economists
ECON 580	Honors Tutorial in Research Project Design
ECON 621	Markets and Models
ECON 623	Population Economics
ECON 661	Issues in International Macroeconomics
ECON 664	Issues in International Trade
ECON 666	Issues in International Finance
ECON 690	Topics in Economics
ECON 695	Topics in Economic Data Analysis
<b>Electives</b>	<b>0-10</b>
<i>Complete any core ECON course (above) or one of these courses:</i>	
ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON 309	Study Abroad in Intermediate Economics
ECON 315	Data Visualization for Economists
ECON/ FINANCE 320	Investment Theory
ECON 321	Sports Economics
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 355	The Economics of Growing-up and Getting Old
ECON 364	Survey of International Economics
ECON 370	Economics of Poverty and Inequality
ECON/A A E 371	Energy, Resources and Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis

ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E 526	Quantitative Methods in Agricultural and Applied Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics

**Total Credits****30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major and ECON courses
- 2.000 GPA on 15 upper-level major courses taken in residence<sup>2</sup>
- 15 credits in ECON, taken on the UW-Madison campus

## HONORS IN THE MAJOR REQUIREMENTS TO EARN HONORS IN THE ECONOMICS MAJOR

To earn Honors in the Major in Economics, students must be declared in and satisfy the requirements for the Economics-Mathematical Emphasis Option (above), **and** satisfy the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ECON and major courses
- Complete the following courses, taken for Honors, with grades of B or better in each:

Code	Title	Credits
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment	
ECON 580	Honors Tutorial in Research Project Design	

**Select one of the following capstone experiences:**

ECON 581	Honors Thesis
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ECON 681 Senior Honors Thesis  
& ECON 682 and Senior Honors Thesis (Take for  
a total of 6 credits)

## FOOTNOTES

1

At least two core ECON courses must be taken in residence at UW–Madison, and not via transfer or a UW–Madison Study Abroad program.

2

Intermediate and Advanced level ECON courses are Upper Level in the major.

## ECONOMICS, B.S.

A major in economics gives students a greater understanding of how people, businesses, and governments respond to their economic environments. Many of the issues that fill the newspapers—jobs, wages, taxes, the cost of living, inequality, pollution, poverty, and economic growth—are, in fundamental ways, economic issues. The daily decisions of businesses and consumers are largely economic. Economists seek to understand the decisions of businesses, consumers, and current economic issues by developing a systematic and thorough understanding of precisely how the economic system operates, including the mechanisms by which resources are allocated, prices determined, income redistributed, and economic growth promoted.

The analytical method of economics recognizes that various choices are open to a society in solving its economic problems. Students are often attracted to economics as a discipline precisely because they want to understand the decisions of people and businesses and to better understand and evaluate economic policy. To begin to approach these issues as an economist requires an understanding of economic theory, empirical methodology, and an understanding of the institutional details and advanced practice gained from intensive study of specific subfields of economics. Consequently, the undergraduate economics major is organized around a progression of courses that first provides a broad introduction to economics, then develops the theoretical tools that provide the foundation of modern economic thought, and finishes with advanced courses designed to provide greater in-depth knowledge of specific fields (such as labor markets, industrial organization, international economics, public finance, banking and finance, macroeconomics, microeconomics, and econometrics).

An economics major is valuable in the job market because the major is designed to train people to think analytically and clearly about a wide variety of issues. Economics graduates go on to pursue careers in a variety of fields including finance, data analytics, and public policy. An economics major is also good preparation for graduate work in a number of areas: business, law, public policy, economics, public administration, industrial relations, international relations, urban and regional planning, and environmental studies.

## HOW TO GET IN

### DECLARING THE MAJOR

- Complete one calculus course (for the Mathematical Emphasis option, MATH 221 or higher is required), and

- Complete any one ECON course (except ECON 100) at UW–Madison, and
- Achieve a 2.000 GPA in all ECON courses and major courses (i.e., calculus) at the time of declaration.

Students may not be declared in both the Economics major and the Certificate in Economic Analytics.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

Foreign Language Complete the third unit of a foreign language.

**L&S Breadth Complete:**

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## OPTIONS IN THE MAJOR

The department offers two major options. Students may declare only one option and must complete all requirements including Residence and Quality of Work standards. Options are:

**Option A: Economics** provides a well-rounded major in economics that is valuable for employment following graduation, or subsequent graduate work in business, law, public policy, and related disciplines.

**Option B: Economics—Mathematical Emphasis** provides students with the mathematical and statistical background needed for in-depth study of the analytical aspects of economics. Its requirements are designed to prepare students for graduate study in economics and related fields, or for careers as professional economists in business or government. For specific Mathematical Emphasis requirements, see the section below (p. 696).

## REQUIREMENTS FOR THE ECONOMICS MAJOR

### MATH AND STATISTICS

Code	Title	Credits
<b>Mathematics (complete one):</b>		
MATH 221 or MATH 211 or MATH 275	Calculus and Analytic Geometry I Calculus Topics in Calculus I	5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	

<b>Statistics (complete one):</b>		<b>3-4</b>
ECON 310	Statistics: Measurement in Economics (Recommended)	
STAT 302	Accelerated Introduction to Statistical Methods	
ECON 400	Introduction to Applied Econometrics	
ECON 410	Introductory Econometrics	
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 340	Data Science Modeling II	
<b>Total Credits</b>		<b>8-14</b>

**Total Credits** 8-14

## ECONOMICS

30 credits to include:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (complete one):</b>		
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	4-8
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Theory (complete one):</b>		
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	6-8
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ)	
<b>Two Core ECON courses:<sup>1</sup></b>		
ECON 400	Introduction to Applied Econometrics	6-8
ECON 409	Study Abroad in Advanced Economics	
ECON 410	Introductory Econometrics	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 461	International Macroeconomics	
ECON 464	International Trade	

ECON 467	International Industrial Organizations
ECON 468	Industrial Organization and Imperfect Competition
ECON 475	Economics of Growth
ECON/ FINANCE 503	Markets with Frictions
ECON 521	Game Theory and Economic Analysis
ECON 522	Law and Economics
ECON/R M I 530	Insuring Life's Risks: Health, Aging, and Policy
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care
ECON 570	Fundamentals of Data Analytics for Economists
ECON 580	Honors Tutorial in Research Project Design
ECON 621	Markets and Models
ECON 623	Population Economics
ECON 661	Issues in International Macroeconomics
ECON 664	Issues in International Trade
ECON 666	Issues in International Finance
ECON 690	Topics in Economics
ECON 695	Topics in Economic Data Analysis

**Electives** 6-14

Complete any Core econ course not used above or one of these courses:

ECON/ FINANCE 300	Introduction to Finance
ECON/ HIST SCI 305	Development of Economic Thought
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
ECON 309	Study Abroad in Intermediate Economics
ECON 315	Data Visualization for Economists
ECON/ FINANCE 320	Investment Theory
ECON 321	Sports Economics
ECON 330	Money and Banking
ECON/A A E/ ENVIR ST 343	Environmental Economics
ECON 355	The Economics of Growing-up and Getting Old
ECON 364	Survey of International Economics
ECON 370	Economics of Poverty and Inequality
ECON/A A E 371	Energy, Resources and Economics
ECON 390	Contemporary Economic Issues
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
ECON/A A E 421	Economic Decision Analysis

ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ECON 465	The American Economy to 1865
ECON/ HISTORY 466	The American Economy Since 1865
ECON/A A E 473	Economic Growth and Development in Southeast Asia
ECON/A A E 474	Economic Problems of Developing Areas
ECON/A A E 477	Agricultural and Economic Development in Africa
ECON/ PHILOS 524	Philosophy and Economics
ECON/A A E 526	Quantitative Methods in Agricultural and Applied Economics
ECON/A A E/ F&W ECOL 531	Natural Resource Economics
ECON/REAL EST/ URB R PL 641	Housing Economics and Policy
ECON/SOC 663	Population and Society
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics

**Total Credits** 30**REQUIREMENTS FOR THE MATHEMATICAL EMPHASIS:**

View as listView as grid

- ECONOMICS: MATHEMATICAL EMPHASIS (P. 692)

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all ECON and major courses
- 2.000 GPA on 15 upper-level major credits taken in residence<sup>2</sup>
- 15 credits in ECON, taken on the UW–Madison campus

**HONORS IN THE ECONOMICS MAJOR**

To participate in Honors in the Economics Major, students must be declared in the Mathematical Emphasis option. For further information, see the Mathematical Emphasis requirements (p. 692) and consult your Economics undergraduate advisor.

**FOOTNOTES**

1

At least two core ECON courses must be taken in residence at UW–Madison, and not via transfer or a UW–Madison Study Abroad program.



2

Intermediate and Advanced level ECON courses are Upper Level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

### LEARNING OUTCOMES

1. Understand the fundamental concepts of economics and how those concepts apply to real world issues.
2. Construct and evaluate economic models, their assumptions, and conclusions.
3. Acquire a diverse set of skills and strategies in mathematical reasoning/statistical and computational techniques/deductive logic/problem solving.
4. Use mathematics/computational/statistical techniques to analyze real world situations and policies.
5. Use economic analysis to critically evaluate public policy proposals.

### FOUR-YEAR PLAN

#### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**Freshman**

Fall	Credits	Spring	Credits
Quantitative Reasoning A	4	ECON 101	4
Communication A	3	Ethnic Studies	3
Foreign Language	4	MATH 221	5

Physical Science Breadth	3	Foreign Language	4
<b>14</b>		<b>16</b>	

**Sophomore**

Fall	Credits	Spring	Credits
ECON 102	4	ECON 301	4
Biological Science Breadth	3	ECON 310	4
Foreign Language	4	Humanities Breadth	4
Literature Breadth	3	Foreign Language	4
INTER-LS 210	1		
<b>15</b>		<b>16</b>	

**Junior**

Fall	Credits	Spring	Credits
ECON 302	4	Econometrics (ECON 400 or 410)	4
Economics elective or core econ course	4	Humanities Breadth	3
Literature Breadth	3	Communication B	4
Science Breadth	4	Elective	3
<b>15</b>		<b>14</b>	

**Senior**

Fall	Credits	Spring	Credits
Core econ course	4	Elective	4
Core course	4	Elective	4
Elective	3	Elective	4
Elective	4	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 120**

### THREE-YEAR PLAN

#### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

#### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students planning to graduate within three years with an Economics major should consult with an advisor (<https://econ.wisc.edu/undergraduate/academic-advising/>) as soon as possible, and should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- ECON 101 Principles of Microeconomics
- Communication Part A

- Quantitative Reasoning Part A
- Placement into MATH 221 Calculus and Analytic Geometry 1
- 3 credits of Literature, 3 credits of Biological Science
- 3-4 units of foreign language

Summer coursework is not required to finish in three years, but students planning to finish in three years will find it easier if they take either an intermediate theory course during Summer One or an advanced elective during Summer Two.

### First Year

Fall	Credits	Spring	Credits	Summer	Credits	
ECON 102	4	ECON 301	4	ECON 302	4	4
MATH 221	5	Communication B		4		
Literature Breadth	3	Biological Science Breadth		3		
Physical Science Breadth	3	Elective (Intermediate or Advanced level)		4		
	<b>15</b>		<b>15</b>			<b>4</b>

### Second Year

Fall	Credits	Spring	Credits	Summer	Credits	
ECON 310	4	ECON 400 or 410	4	Summer Internship (optional)	0	0
Core Econ Course or elective	3	Physical Science Breadth		3		
Ethnic Studies/ Humanities Breadth	4	Humanities Breadth		4		
Elective (Intermediate or Advanced level)	4	Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)		4		
	<b>15</b>		<b>15</b>			<b>0</b>

### Third Year

Fall	Credits	Spring	Credits	
Core econ Course	3	Electives (Intermediate or Advanced level)	12	
Electives (Intermediate or Advanced level)	11			
	<b>14</b>		<b>12</b>	

**Total Credits 90**

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Academic advising (<https://econ.wisc.edu/undergraduate/academic-advising/>), along with general information about the undergraduate major and coursework, is available in Room 7238 of the Social Science Building. Find us on the campus map ([http://www.map.wisc.edu/?initObj=bdg\\_SocSc&z=41.33&x=-0.158401&y=-0.09157](http://www.map.wisc.edu/?initObj=bdg_SocSc&z=41.33&x=-0.158401&y=-0.09157)).  
Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu)  
Phone: 608-262-6925

### ECONOMICS CAREER DEVELOPMENT OFFICE

The Economics Career Development Office (<https://econ.wisc.edu/careers/>) (ECDO) provides career advising to help economics students explore career options and search for jobs and internships including reviewing application materials (cover letter and resume). Career advisors work with students to develop an individualized job/internship search strategy based on the student's background and career goals. Career advising is open to declared economics majors or anyone considering majoring in economics who would like economics-specific career advice. Set up an appointment (<https://econ.wisc.edu/careers/get-career-advice/>) or email your questions to [econcareers@ssc.wisc.edu](mailto:econcareers@ssc.wisc.edu)

### PREPARATION FOR PH.D. PROGRAMS IN ECONOMICS

Students interested in pursuing graduate study should pursue Option B (mathematical emphasis) and augment the standard curriculum with higher-level mathematics and statistics courses. These may include:

Code	Title	Credits
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 421	The Theory of Single Variable Calculus	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	

It is important to consult early in the second year with the undergraduate advisor and/or the faculty member that directs the undergraduate program to design a plan of coursework.

### DIRECTED STUDY

Directed Study (ECON 698, ECON 699) enables advanced students to pursue economic topics not covered in the regular course offerings. A student interested in Directed Study should prepare a research proposal and/or reading list; specific course requirements are arranged with an instructor who agrees to supervise the directed study project. Enrollment requires the consent of the instructor; a GPA of 3.00 or above in ECON; completion of the Intermediate economic theory courses (ECON 301 &

ECON 302); at least one Advanced ECON course; and completion of the department's Directed Study form, available in 7238 Social Science.

## INTERNSHIPS

Students can earn 1 credit for approved internships appropriate to the study of economics under course ECON 228. Students must enroll for ECON 228 in the same semester/session in which the internship is granted. Students should work a minimum of 100 hours per term. Prerequisites are declaration in the major economics major; a major GPA of 2.200 or higher; completion of at least four ECON courses at UW–Madison; completion of at least one Intermediate Theory course (ECON 301 & ECON 302); a completed application; and departmental approval.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

- Aizawa, Naoki, Assistant Professor  
Labor Economics, Health Economics, Public Economics
- Blank, Rebecca, Professor  
Public Economics, Labor Economics
- Boerma, Job, Assistant Professor  
Macroeconomics, Public Finance
- Braxton Carter, Assistant Professor

Macroeconomics, Labor Economics, Consumer Finance

- Chiang, Harold, Assistant Professor  
Econometrics
- Corbae, Dean, Professor  
Macroeconomics
- Coulibaly, Louphou, Assistant Professor  
International Finance and Macroeconomics, Monetary Economics
- Deneckere, Raymond, Professor  
Microeconomic Theory, Industrial Organization
- Engel, Charles, Professor  
International Economics, Macroeconomics
- Fu, Chao, Professor  
Labor Economics
- Gregory, Jesse, Associate Professor  
Labor Economics, Public Economics
- Hansen, Bruce, Professor  
Econometrics
- Hendricks, Kennan, Professor  
Industrial Organization
- Houde, Jean-Francois, Professor
- Kirpalani, Rishabh, Assistant Professor  
Macroeconomics, Public Finance, International Economics, Financial Economics
- Lentz, Rasmus, Professor  
Labor Economics, Macroeconomics, Microeconomics
- Magnolfi, Lorenzo, Assistant Professor  
Industrial Organization, Applied Microeconomics, Applied Econometrics
- Martellini, Paolo, Assistant Professor  
Macroeconomics, Labor Economics, Urban Economics
- Mommaerts, Corina, Assistant Professor  
Public Economics, Labor Economics
- O'Connell, Martin, Assistant Professor  
Public Economics, Industrial Organization
- Porter, Jack, Professor  
Econometrics
- Quint, Daniel, Associate Professor  
Microeconomic Theory, Industrial Organization
- Rostek, Marzena, Professor  
Microeconomic Theory, Market Design, Finance
- Ruhl, Kim, Professor  
International Economics
- Scholz, John Karl, Professor  
Public Economics
- Seshadri, Ananth, Professor  
Macroeconomics, Public Finance
- Shi, Xiaoxia, Professor  
Econometrics
- Smith, Jeffrey, Professor  
Labor Economics, Public Economics
- Smith, Lones, Professor  
Microeconomic Theory
- Soelvesten, Mikkel, Assistant Professor  
Econometrics
- Sorensen, Alan, Professor  
Industrial Organization
- Sullivan, Christopher, Assistant Professor

Industrial Organization, Applied Microeconomics

- Taber, Christopher, Professor  
Labor Economics, Applied Econometrics, Public Economics
- Walker, James, Professor  
Labor Economics, Econometrics
- Weretka, Marek, Associate Professor  
Economic Theory, Finance
- West, Kenneth, Professor  
Macroeconomics, Econometrics
- Williams, Noah, Professor  
Macroeconomics
- Wiswall, Matthew, Professor  
Applied Microeconomics, Applied Econometrics, Labor Economics,  
Education and Demographic Economics
- Wright, Randall, Professor  
Macroeconomics, Finance

Health Economics, Labor Economics

- Rick, Steven, Senior Lecturer

For a public directory of our faculty, please visit the Faculty page (<https://econ.wisc.edu/faculty/>) on our website.

## ECONOMICS: MATHEMATICAL EMPHASIS

### REQUIREMENTS

### REQUIREMENTS FOR THE MATHEMATICAL EMPHASIS MATHEMATICS & STATISTICS

Code	Title	Credits
<b>Mathematics</b>		<b>15-16</b>
<i>Option 1—four courses:</i>		
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	Calculus--Functions of Several Variables	
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
<i>Option 2—Honors sequence (3 courses):</i>		
MATH 275	Topics in Calculus I	
MATH 276	Topics in Calculus II	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<b>Statistics (1 course)</b>		<b>3</b>
ECON 310	Statistics: Measurement in Economics (Recommended)	
STAT 302	Accelerated Introduction to Statistical Methods	
ECON 410	Introductory Econometrics	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 340	Data Science Modeling II	

**Total Credits** **18-19**

### ECONOMICS

30 credits to include:

Code	Title	Credits
<b>Microeconomics &amp; Macroeconomics (complete one):</b>		<b>4-8</b>
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	

### AFFILIATED FACULTY

- Chang, Briana  
Financial Intermediation, Information Frictions, Search and Matching Theory
- Chinn, Menzie
- Chung, Kevin  
Quantitative Marketing
- Montgomery, James  
Economic Sociology, Religion, General Social Theory, Demography and Ecology, Social Psychology and Microsociology
- Sarada  
Economics of Entrepreneurship and Innovation
- Schechter, Laura  
Development Economics, Behavioral and Experimental Economics, Risk Analysis
- Smeeding, Timothy  
Poverty, Intergenerational Mobility, Inequality, Wealth

### INSTRUCTIONAL STAFF

- Alder, Simeon, Faculty Associate  
Macroeconomics, Growth and Development, Matching
- Bykhovskaya, Anna, Associate Lecturer
- Chan, Stella, Lecturer
- Eudey, Gwen, Senior Lecturer  
Open Economy Macroeconomics
- Friedman, Matthew, Lecturer
- Glawtschew, Rebecca, Lecturer
- Hansen, David, Lecturer  
Development Economics and Labor Economics
- Hansen, Korinna, Senior Lecturer  
Applied Microeconomics, Health Economics
- Johnson, David, Senior Lecturer
- Kelly, Elizabeth, Faculty Associate
- McKelvey, Christopher, Lecturer  
Development Economics
- Muniagurria, Maria, Faculty Associate  
Development Economics and International Trade
- Pac, Gregory, Senior Lecturer
- Pauley, Gwyn, Lecturer

**Intermediate Theory (complete one): 6-8**

ECON 301 & ECON 302 Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory

ECON 311 & ECON 312 Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ )

**Introductory Econometrics**

ECON 410 Introductory Econometrics 4

**Three Core ECON courses:<sup>1</sup> 6-12**

ECON 409 Study Abroad in Advanced Economics

ECON 435 The Financial System

ECON 441 Analytical Public Finance

ECON 442 Macroeconomic Policy

ECON 448 Human Resources and Economic Growth

ECON 450 Wages and the Labor Market

ECON 451 The Economic Approach to Human Behavior

ECON 455 Behavioral Economics

ECON 458 Industrial Structure and Competitive Strategy

ECON 460 Economic Forecasting

ECON 461 International Macroeconomics

ECON 464 International Trade

ECON 467 International Industrial Organizations

ECON 468 Industrial Organization and Imperfect Competition

ECON 475 Economics of Growth

ECON/ FINANCE 503 Markets with Frictions

ECON 521 Game Theory and Economic Analysis

ECON 522 Law and Economics

ECON/R M I 530 Insuring Life's Risks: Health, Aging, and Policy

ECON/ POP HLTH/ PUB AFFR 548 The Economics of Health Care

ECON 570 Fundamentals of Data Analytics for Economists

ECON 580 Honors Tutorial in Research Project Design

ECON 621 Markets and Models

ECON 623 Population Economics

ECON 661 Issues in International Macroeconomics

ECON 664 Issues in International Trade

ECON 666 Issues in International Finance

ECON 690 Topics in Economics

ECON 695 Topics in Economic Data Analysis

**Electives 0-10**

*Complete any core ECON course (above) or one of these courses:*

ECON/ FINANCE 300 Introduction to Finance

ECON/ HIST SCI 305 Development of Economic Thought

ECON/A A E/ REAL EST/ URB R PL 306 The Real Estate Process

ECON 309 Study Abroad in Intermediate Economics

ECON 315 Data Visualization for Economists

ECON/ FINANCE 320 Investment Theory

ECON 321 Sports Economics

ECON 330 Money and Banking

ECON/A A E/ ENVIR ST 343 Environmental Economics

ECON 355 The Economics of Growing-up and Getting Old

ECON 364 Survey of International Economics

ECON 370 Economics of Poverty and Inequality

ECON/A A E 371 Energy, Resources and Economics

ECON 390 Contemporary Economic Issues

ECON/REAL EST/ URB R PL 420 Urban and Regional Economics

ECON/A A E 421 Economic Decision Analysis

ECON/ENVIR ST/ POLI SCI/ URB R PL 449 Government and Natural Resources

ECON/A A E/ INTL BUS 462 Latin American Economic Development

ECON 465 The American Economy to 1865

ECON/ HISTORY 466 The American Economy Since 1865

ECON/A A E 473 Economic Growth and Development in Southeast Asia

ECON/A A E 474 Economic Problems of Developing Areas

ECON/A A E 477 Agricultural and Economic Development in Africa

ECON/ PHILOS 524 Philosophy and Economics

ECON/A A E 526 Quantitative Methods in Agricultural and Applied Economics

ECON/A A E/ F&W ECOL 531 Natural Resource Economics

ECON/REAL EST/ URB R PL 641 Housing Economics and Policy

ECON/SOC 663 Population and Society

ECON/A A E/ ENVIR ST/ URB R PL 671 Energy Economics

**Total Credits****30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major and ECON courses
- 2.000 GPA on 15 upper-level major courses taken in residence<sup>2</sup>
- 15 credits in ECON, taken on the UW–Madison campus

## HONORS IN THE MAJOR REQUIREMENTS TO EARN HONORS IN THE ECONOMICS MAJOR

To earn Honors in the Major in Economics, students must be declared in and satisfy the requirements for the Economics–Mathematical Emphasis Option (above), **and** satisfy the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ECON and major courses
- Complete the following courses, taken for Honors, with grades of B or better in each:

Code	Title	Credits
ECON 311 & ECON 312	Intermediate Microeconomic Theory – Advanced Treatment and Intermediate Macroeconomic Theory – Advanced Treatment	
ECON 580	Honors Tutorial in Research Project Design	

### Select one of the following capstone experiences:

ECON 581	Honors Thesis
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis (Take for a total of 6 credits)

## FOOTNOTES

1

At least two core ECON courses must be taken in residence at UW–Madison, and not via transfer or a UW–Madison Study Abroad program.

2

Intermediate and Advanced level ECON courses are Upper Level in the major.

## ENGLISH

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

English majors choose one of three tracks: the general major (which emphasizes literary and cultural studies), creative writing, or language and linguistics. All majors take a core curriculum that introduces them to a range of approaches to literature and language, including courses in literary and cultural history. Students who opt for the general major build on core courses with intermediate and advanced classes that focus on texts from across a range of periods and places, investigating literature and culture using multiple methods and approaches. Students pursuing the emphasis on creative writing take the core curriculum with a sequence of creative writing workshops. Students wishing to emphasize language and linguistics choose options in grammar, the history of the English language, phonology, and language acquisition.

## TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## DEGREES/MAJORS/CERTIFICATES

- English, B.A. (p. 703)
- English, B.S. (p. 711)
- Health and the Humanities, Certificate (p. 719)
- Teaching English to Speakers of Other Languages, Certificate (p. 722)

## PEOPLE

### FACULTY

Professors: Auerbach, Barry, Bearden, Begam, Bernard-Donals, Bow, Britland, Castronovo, A. Dharwadker, V. Dharwadker, Foys, Guyer, Hill, Johnson, Kercheval, Nguyen, Olaniyan, Ortiz-Robles, Purnell, Raimy, Sherrard-Johnson, Shreve, Wanner, M. Young, Yu, Zimmerman

Associate Professors: Allewaert, Calhoun, Cooper, Druschke, Fawaz, Neyrat, Olson, Samuels, Trotter, Vareschi, Wells, Zweck

Assistant Professors: Amine, Cho, Egoro, Fecu, Grunewald, Huang, Lagman

## RESOURCES AND SCHOLARSHIPS

### WRITING CENTER

The Writing Center (<https://writing.wisc.edu>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often

is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<https://writing.wisc.edu>).

## ENGLISH, B.A.

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

English majors choose one of three tracks: the general major (which emphasizes literary and cultural studies), creative writing, or language and linguistics. All majors take a core curriculum that introduces them to a range of approaches to literature and language, including courses in literary and cultural history. Students who opt for the general major build on core courses with intermediate and advanced classes that focus on texts from across a range of periods and places, investigating literature and culture using multiple methods and approaches. Students pursuing the emphasis on creative writing take the core curriculum with a sequence of creative writing workshops. Students wishing to emphasize language and linguistics choose options in grammar, the history of the English language, phonology, and language acquisition.

## TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## HOW TO GET IN

There are no admission requirements for the major. Students interested in declaring the major should schedule an appointment with the undergraduate academic advisor listed in the Contact Box on the right sidebar of this page.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |   |
|-------------------|---|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> <p>* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.</p> |
|-------------------|---|

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

- |                                     |  |
|-------------------------------------|--|
| Mathematics                         | Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.   |
| Foreign Language                    | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>   |
| L&S Breadth                         | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
| Liberal Arts and Science Coursework | Complete at least 108 credits.   |
| Depth of Intermediate/Advanced work | Complete at least 60 credits at the intermediate or advanced level.  |
| Major                               | Declare and complete at least one major.   |
| Total Credits                       | Complete at least 120 credits.   |

UW–Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

30 credits in intermediate- and advanced-level ENGL courses numbered 204 and higher.<sup>1</sup>

### ENGLISH (LITERATURE)

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course)</b>		<b>3</b>
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/ AMER IND 246	Literature by American Indian Women	
ENGL/ GEN&WS 248	Women in Ethnic American Literature	
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	
ENGL 456	Topic in Nineteenth–Century American Literature and Culture	
ENGL 457	Topic in American Literature and Culture since 1900	
ENGL 458	Major American Writer or Writers	
ENGL 459	Three American Novelists	
ENGL 461	Topics in Ethnic and Multicultural Literature	
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	

ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers
ENGL/ ASIAN AM 465	Asian American Poetry
ENGL 474	Topic in Contemporary Literature
ENGL/ JEWISH 539	Jewish Literatures in Diaspora
ENGL/ GEN&WS 545	Feminist Theory and Women's Writing in English
ENGL/ JEWISH 593	Literature of Jewish Identity in America
ENGL/ AFROAMER 672	Selected Topics in Afro–American Literature
<b>Pre–1800 course (two course)</b>	
<b>6</b>	
<i>You may take one (only) Shakespeare course:</i>	
ENGL 219	Shakespearean Drama
ENGL 220	Shakespearean Drama
ENGL 431	Early Works of Shakespeare
ENGL 432	Later Works of Shakespeare
<i>You must take at least one course that is not Shakespeare:</i>	
ENGL 328	The Sixteenth Century
ENGL 331	Seventeenth–Century Literature and Culture
ENGL 334	Eighteenth Century Literature and Culture
ENGL 335	Stage and Page in the Long Eighteenth Century
ENGL 336	Eighteenth–Century Novel
ENGL/HISTORY/ RELIG ST 360	The Anglo–Saxons
ENGL 422	Outstanding Figure(s) in Literature before 1800
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture
ENGL/ MEDIEVAL 424	Medieval Drama
ENGL/ MEDIEVAL 425	Medieval Romance
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales
ENGL 430	Topic in Early Modern Literature and Culture
ENGL 433	Spenser
ENGL/ RELIG ST 434	Milton
ENGL 438	Topic in Eighteenth–Century Literature and Culture
ENGL/ MEDIEVAL 520	Old English
ENGL/ MEDIEVAL 521	Advanced Old English Literature
ENGL 543	Discourses of Disability, Antiquity to 1800



ENGL 546	Topic in Travel Writing before 1800	
<b>Seminar</b>		
ENGL 245	Seminar in the Major	3
<b>Language or Composition &amp; Rhetoric (1 course)</b> <b>3</b>		
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 214	The English Language	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL 400	Advanced Composition	
ENGL/ GEN&WS 401	Race, Sex, and Texts (How to do things with writing)	
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	
ENGL 505	Topics in Composition and Rhetoric	
<b>Electives</b> <b>9</b>		
any course from ENGL 204-699 <sup>1</sup>		
<b>Total Credits</b>		<b>30</b>

1

excluding ENGL 207 and ENGL 236.

## NAMED OPTIONS

Students may complete a named option, instead of the traditional English major. These are formally printed on the transcript.

View as list View as grid

- ENGLISH: EMPHASIS ON CREATIVE WRITING (P. 708)
- ENGLISH: ENGLISH LANGUAGE AND LINGUISTICS (P. 709)

## RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ENGL courses and all major courses

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>2</sup>

15 credits in ENGL, taken on the UW–Madison campus

2

Intermediate and Advanced level ENGL courses are considered upper level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the English major with permission of the major advisor. All English majors, including those declared in either named option, are eligible to complete Honors in the major.

### HONORS IN THE ENGLISH MAJOR REQUIREMENTS

To earn Honors in the Major in English, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all ENGL courses and all major courses
- Complete 12 credits, taken for Honors, with a grade of B or better to include:

- ENGL 245 and
- Either:
  - a two-semester Senior Honors Thesis in ENGL 681 and ENGL 682 for a total of 6 credits, or
  - a senior Honors project that includes ENGL 680 and one other 3-credit I/A ENGL course taken for Honors OR
  - ENGL 695 and one other ENGL Creative Writing Workshop taken for Honors

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (History of literature and language) To demonstrate knowledge of major forms, techniques, social conditions, values, and genres that have shaped the history of English literature and language.
2. (Critical thinking) To be able to discern and integrate divergent and contradictory perspectives, identify and question assumptions, and assess evidence and methods.
3. (Creativity) To generate original ideas and texts, experimenting and taking risks, solving problems, and answering questions in a range of genres and media.
4. (Critical writing) To write original, coherent, and compelling arguments that push beyond summary to analysis and independent and critical thinking in clear prose that meets expectations for grammatical correctness.
5. (Citizenship) To develop empathy by learning about the experiences of others, and to gain an understanding of how we participate in communities (including the classroom) and the public sphere.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in

athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
Communication A (complete during your first year)		3 Ethnic Studies	3
Quantitative Reasoning A (complete during your first year)		3 Foreign Language (if required)	4
Foreign Language		4 Social Science Breadth	3
Social Science Breadth		4 Physical Science Breadth	3
		Elective	3
		<b>14</b>	<b>16</b>

### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		4 ENGL 201 or 207 (COM-B)	3
ENGL 241		3 ENGL 242	3
ENGL 245		3 English Language or Composition/Rhetoric Requirement	3
Social Science Breadth		3-4 Social Science Breadth	3
INTER-LS 210		1 Biological Science Breadth	3
		<b>15</b>	<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits) <sup>1</sup>		Pre-1800 Literature Requirement	3
Natural Science Breadth		3 English I/A Elective	3
Elective		3 Natural Science Breadth	3
American Literature		3 Elective	3
Pre-1800 Literature Requirement <sup>2</sup>		3 Elective	3
Elective		3	
		<b>15</b>	<b>15</b>

### Fourth Year

Fall	Credits	Spring	Credits
English I/A Elective		3 English I/A Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

### Footnotes

1

Students must declare a major before 86 credits.

2

See your major advisor if you want to declare English/Creative Writing, Honors in the English major, or plan to study abroad.

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with an English major should enter the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 combined credits of Humanities, Social Science, and Natural Science coursework
- 3-4 units of foreign language

### First Year

Fall	Credits	Spring	Credits
Ethnic Studies		3 ENGL 201 or 207 (meets Communication B)	3
Literature Breadth		3 ENGL 241 or 242	3
Science Breadth		3 Physical Science Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Foreign Language (if interested in retroactive credit or to reach 4 units) or Elective		3 Elective	3
		<b>15</b>	<b>15</b>

### Second Year

Fall	Credits	Spring	Credits
ENGL 241 or 242		3 Pre-1800 Literature course	3
ENGL 245		3 ENGL Elective	3
English Language or Composition & Rhetoric course		3 Social Science Breadth or Elective (Intermediate or Advanced level)	3

Quantitative Reasoning B (if B.A.) or Elective (if B.S.)	3 Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Social Science Breadth	3 Elective (Intermediate or Advanced level)	3
	<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
American Literature course	3	ENGL Elective	3
Pre-1800 Literature course	3	ENGL Elective	3
Biological Science Breadth	3	Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Science Breadth or Elective	3	Electives (Intermediate or Advanced level)	6
Elective (Intermediate or Advanced level)	3		
	<b>15</b>		<b>15</b>

**Total Credits 90****ADVISING AND CAREERS****ACADEMIC ADVISING**

The English department supports majors and perspective majors by offering a comprehensive advising team based on your personal interests. You will find us on the 7th floor of the Helen C. White Building (<https://map.wisc.edu/s/6nfnztsa/>), next to Memorial Union. Our team is here to support students holistically as they navigate their time at UW. To meet our advisors, visit our undergraduate advising page (<https://english.wisc.edu/undergraduate/undergraduate-advising/>) for more information, including how to schedule an appointment.

**CAREERS AND INTERNSHIP ADVISOR****Career & Internship Coordinator**

[careers@english.wisc.edu](mailto:careers@english.wisc.edu) (Career & Internship Coordinator [careers@english.wisc.edu](mailto:careers@english.wisc.edu))  
7195E Helen C. White, 600 North Park Street  
English Career Advising (<https://english.wisc.edu/undergraduate/undergraduate-advising/>)

The English Department encourages our majors to begin working on their career exploration and preparation soon after declaring the major. Our career advisor also partners with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Please visit the English Department website (<https://english.wisc.edu/teaching-faculty/>) for a complete list of faculty, instructional, and academic staff.

**RESOURCES AND SCHOLARSHIPS****WRITING CENTER**

The Writing Center (<https://writing.wisc.edu/>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence

halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<https://writing.wisc.edu>).

## SCHOLARSHIPS AND WRITING PRIZES

The English Department is proud to offer numerous forms of support for its undergraduate students and to recognize exceptional accomplishments in various forms of academic and creative work. You can find information about scholarships, prizes, and grants specifically designated for declared English majors on our website (<https://english.wisc.edu/undergraduate/apply-for-scholarships/>). Typically, these prizes and scholarships are awarded in the spring semester. Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH) (<https://wisc.academicworks.com/>).

## ENGLISH: EMPHASIS ON CREATIVE WRITING

### REQUIREMENTS

## ENGLISH, CREATIVE WRITING OPTION

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in creative writing may combine a background in literature with a concentration of courses in fiction or poetry writing. The major requirements are distributed as follows:

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course)</b>		<b>3</b>
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/ AMER IND 246	Literature by American Indian Women	
ENGL/ GEN&WS 248	Women in Ethnic American Literature	
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	

ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	
ENGL 457	Topic in American Literature and Culture since 1900	
ENGL 458	Major American Writer or Writers	
ENGL 459	Three American Novelists	
ENGL 461	Topics in Ethnic and Multicultural Literature	
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	
ENGL/ ASIAN AM 465	Asian American Poetry	
ENGL 474	Topic in Contemporary Literature	
ENGL/ GEN&WS 545	Feminist Theory and Women's Writing in English	
ENGL/ JEWISH 593	Literature of Jewish Identity in America	
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	
<b>Seminar (1 course)</b>		
ENGL 245	Seminar in the Major	3
<b>Language or Composition &amp; Rhetoric (1 course)</b>		<b>3</b>
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 214	The English Language	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL 400	Advanced Composition	
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	
ENGL 505	Topics in Composition and Rhetoric	
<b>Creative Writing Workshops (3 courses)<sup>2</sup></b>		<b>9</b>
ENGL 307	Creative Writing: Fiction and Poetry Workshop	
ENGL 407	Creative Writing: Nonfiction Workshop	
ENGL 408	Creative Writing: Fiction Workshop	
ENGL 409	Creative Writing: Poetry Workshop	
ENGL 410	Creative Writing: Playwriting Workshop	
ENGL 411	Creative Writing: Special Topics Workshop	
ENGL 508	Creative Writing: Advanced Fiction Workshop	
<b>Directed Creative Writing (1 course)</b>		
ENGL 695	Directed Creative Writing	3
<b>Electives</b>		<b>3</b>
any course from ENGL 204-699 <sup>1</sup>		
<b>Total Credits</b>		<b>30</b>

1  
excluding ENGL 207 and ENGL 236.

2  
Workshops numbered 400 and higher may be repeated for credit. Students are allowed to take only one creative writing workshop per semester. All three required workshops must be completed prior to beginning the Directed Creative Writing course (ENGL 695).

# ENGLISH: ENGLISH LANGUAGE AND LINGUISTICS

## REQUIREMENTS

### ENGLISH, ENGLISH LANGUAGE AND LINGUISTICS OPTION

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in English Language and Linguistics may combine a background in literature with a concentration of courses in the option. The major requirements are distributed as follows:

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course) 3</b>		
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/ AMER IND 246	Literature by American Indian Women	
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	
ENGL 457	Topic in American Literature and Culture since 1900	
ENGL 458	Major American Writer or Writers	
ENGL 459	Three American Novelists	

ENGL 461	Topics in Ethnic and Multicultural Literature	
ENGL/ ASIAN AM 462	Topic in Asian American Literature	
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	
ENGL/ ASIAN AM 465	Asian American Poetry	
ENGL 474	Topic in Contemporary Literature	
ENGL/ GEN&WS 545	Feminist Theory and Women's Writing in English	
ENGL/ JEWISH 593	Literature of Jewish Identity in America	
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	
<b>English Seminar</b>		
ENGL 245	Seminar in the Major	3
<b>Language or Composition Rhetoric</b>		
ENGL 214	The English Language	3
<b>English Language and Linguistics Courses</b>		
ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 514	English Syntax	3
or ENGL 516	English Grammar in Use	
<b>Electives 6</b>		
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 219	Shakespearean Drama	
ENGL 220	Shakespearean Drama	
ENGL 224	Introduction to Poetry	
ENGL/ GEN&WS 248	Women in Ethnic American Literature	
ENGL/ GEN&WS 250	Women in Literature	
ENGL 271	Writing with New Media	
ENGL 279	Topics in English, Study Abroad - Literature	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL/ ENVIR ST 305	Rhetoric, Science, and Public Engagement	
ENGL 307	Creative Writing: Fiction and Poetry Workshop	
ENGL 316	English Language Variation in the U.S.	
ENGL 318	Second Language Acquisition	
ENGL 319	Language, Race, and Identity	
ENGL 320	Linguistic Theory and Child Language	
ENGL 328	The Sixteenth Century	
ENGL 331	Seventeenth-Century Literature and Culture	

ENGL 334	Eighteenth Century Literature and Culture	ENGL 431	Early Works of Shakespeare
ENGL 335	Stage and Page in the Long Eighteenth Century	ENGL 432	Later Works of Shakespeare
ENGL 336	Eighteenth-Century Novel	ENGL 433	Spenser
ENGL 340	Romantic Literature and Culture	ENGL/ RELIG ST 434	Milton
ENGL 345	Nineteenth-Century Novel	ENGL 438	Topic in Eighteenth-Century Literature and Culture
ENGL 346	Victorian Poetry	ENGL 443	Outstanding Figure(s) in Literature since 1800
ENGL/ GEN&WS 350	Special Topics in Gender & Literature	ENGL 444	Topic in Romantic or Victorian Literature and Culture
ENGL 351	Modernist Novel	ENGL 446	Romantic Autobiographies
ENGL 352	Modernist Poetry	ENGL 453	Topic in British Literature and Culture since 1900
ENGL 353	British Literature since 1900	ENGL 454	James Joyce
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	ENGL 469	Interdisciplinary Studies in the Arts
ENGL 373	Contemporary Poetry	ENGL 473	Topic in Postcolonial or World Literature
ENGL 375	Literatures of Migration and Diaspora	ENGL/ THEATRE 477	Diaspora and Theatre
ENGL 376	Literature and Animal Studies	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
ENGL 379	Postcolonial and World Literature	ENGL 481	Junior Honors Seminar in the Major
ENGL 400	Advanced Composition	ENGL 505	Topics in Composition and Rhetoric
ENGL/ GEN&WS 401	Race, Sex, and Texts (How to do things with writing)	ENGL 508	Creative Writing: Advanced Fiction Workshop
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	ENGL 516	English Grammar in Use
ENGL 407	Creative Writing: Nonfiction Workshop	ENGL/ MEDIEVAL 520	Old English
ENGL 408	Creative Writing: Fiction Workshop	ENGL/ MEDIEVAL 521	Advanced Old English Literature
ENGL 409	Creative Writing: Poetry Workshop	ENGL/HIST SCI/ MED HIST 525	Health and the Humanities
ENGL 410	Creative Writing: Playwriting Workshop	ENGL 531	Humans, Non-Humans, Post-Humans
ENGL 411	Creative Writing: Special Topics Workshop	ENGL/ ENVIR ST 533	Topic in Literature and the Environment
ENGL 413	English Words: Grammar, Culture, Mind	ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality
ENGL 414	Global Spread of English	ENGL/ JEWISH 539	Jewish Literatures in Diaspora
ENGL 415	Introduction to TESOL Methods	ENGL 543	Discourses of Disability, Antiquity to 1800
ENGL 416	English in Society	ENGL 544	Modern Discourses of Disability
ENGL 417	History of the English Language	ENGL 546	Topic in Travel Writing before 1800
ENGL 420	Topics in English Language and Linguistics	ENGL 548	Topic in Literature and Politics
ENGL 422	Outstanding Figure(s) in Literature before 1800	ENGL 559	Topic in Literary or Cultural Theory
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	ENGL 561	Modern Critical Theories
ENGL/ MEDIEVAL 424	Medieval Drama	ENGL 571	Remix, Mashup, and Digital Design
ENGL/ MEDIEVAL 425	Medieval Romance	ENGL 572	Smart Media & Critical Information Design
ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry	ENGL/ THEATRE 575	British Drama, 1914 to Present
ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	ENGL/ THEATRE 576	Survey: Theories of Drama
ENGL 430	Topic in Early Modern Literature and Culture		

ENGL/ THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
ENGL/ THEATRE 578	Modern American Drama and Theatre
ENGL 622	Topics in English: Study Abroad
ENGL 656	Theatre of the Avant-Garde, 1850-1950
ENGL 680	Honors Project
ENGL 681	Senior Honors Thesis in the Major
ENGL 682	Senior Honors Thesis in the Major
ENGL 691	Senior Thesis
ENGL 692	Senior Thesis
ENGL 695	Directed Creative Writing
ENGL 699	Directed Study

**Total Credits****30**

## ENGLISH, B.S.

The English major teaches students to appreciate and use the English language and literature effectively for critical thinking, effective communication, citizenship, and career success. English majors build strong writing skills and engage in high-level critical and analytical thinking. They encounter enriching, enduring, experimental, and complex works of literature. And they grapple with perspectives far distant from their own, examining their deepest values. Instructors introduce students to a wide range of genres and cultural perspectives, and pay close attention to all aspects of student thinking and writing, from logic and evidence to originality and style. Fostering communication skills, stimulating creativity, developing cultural sensitivity, and sharpening analytical abilities, the English major prepares students for a broad range of careers.

English majors choose one of three tracks: the general major (which emphasizes literary and cultural studies), creative writing, or language and linguistics. All majors take a core curriculum that introduces them to a range of approaches to literature and language, including courses in literary and cultural history. Students who opt for the general major build on core courses with intermediate and advanced classes that focus on texts from across a range of periods and places, investigating literature and culture using multiple methods and approaches. Students pursuing the emphasis on creative writing take the core curriculum with a sequence of creative writing workshops. Students wishing to emphasize language and linguistics choose options in grammar, the history of the English language, phonology, and language acquisition.

## TEACHING MAJOR

Those who wish to prepare for teaching careers at the secondary level should complete the undergraduate English major and then apply for a teaching certificate or graduate education program. For further information, students should make an appointment with the undergraduate advisor in English or the graduate advisor in curriculum and instruction.

## HOW TO GET IN

There are no admission requirements for the major. Students interested in declaring the major should schedule an appointment with the

undergraduate academic advisor listed in the Contact Box on the right sidebar of this page.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
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Foreign Language	Complete the third unit of a foreign language.
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L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

30 credits in intermediate- and advanced-level ENGL courses numbered 204 and higher.<sup>1</sup>

### ENGLISH (LITERATURE)

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course)</b>		<b>3</b>
ENGL/LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/AMER IND 246	Literature by American Indian Women	
ENGL/GEN&WS 248	Women in Ethnic American Literature	
ENGL/ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	
ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	

ENGL 457	Topic in American Literature and Culture since 1900
ENGL 458	Major American Writer or Writers
ENGL 459	Three American Novelists
ENGL 461	Topics in Ethnic and Multicultural Literature
ENGL/ASIAN AM/GEN&WS 463	Race and Sexuality in American Literature
ENGL/ASIAN AM/GEN&WS 464	Asian American Women Writers
ENGL/ASIAN AM 465	Asian American Poetry
ENGL 474	Topic in Contemporary Literature
ENGL/JEWISH 539	Jewish Literatures in Diaspora
ENGL/GEN&WS 545	Feminist Theory and Women's Writing in English
ENGL/JEWISH 593	Literature of Jewish Identity in America
ENGL/AFROAMER 672	Selected Topics in Afro-American Literature

### Pre-1800 course (two course) **6**

*You may take one (only) Shakespeare course:*

ENGL 219	Shakespearean Drama
ENGL 220	Shakespearean Drama
ENGL 431	Early Works of Shakespeare
ENGL 432	Later Works of Shakespeare

*You must take at least one course that is not Shakespeare:*

ENGL 328	The Sixteenth Century
ENGL 331	Seventeenth-Century Literature and Culture
ENGL 334	Eighteenth Century Literature and Culture
ENGL 335	Stage and Page in the Long Eighteenth Century
ENGL 336	Eighteenth-Century Novel
ENGL/HISTORY/RELIG ST 360	The Anglo-Saxons
ENGL 422	Outstanding Figure(s) in Literature before 1800
ENGL/MEDIEVAL 423	Topic in Medieval Literature and Culture
ENGL/MEDIEVAL 424	Medieval Drama
ENGL/MEDIEVAL 425	Medieval Romance
ENGL/MEDIEVAL 426	Chaucers Courtly Poetry
ENGL/MEDIEVAL 427	Chaucer's Canterbury Tales
ENGL 430	Topic in Early Modern Literature and Culture
ENGL 433	Spenser
ENGL/RELIG ST 434	Milton



ENGL 438	Topic in Eighteenth-Century Literature and Culture	
ENGL/ MEDIEVAL 520	Old English	
ENGL/ MEDIEVAL 521	Advanced Old English Literature	
ENGL 543	Discourses of Disability, Antiquity to 1800	
ENGL 546	Topic in Travel Writing before 1800	
<b>Seminar</b>		
ENGL 245	Seminar in the Major	3
<b>Language or Composition &amp; Rhetoric (1 course)</b>		<b>3</b>
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 214	The English Language	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL 400	Advanced Composition	
ENGL/ GEN&WS 401	Race, Sex, and Texts (How to do things with writing)	
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	
ENGL 505	Topics in Composition and Rhetoric	
<b>Electives</b>		<b>9</b>
any course from ENGL 204-699 <sup>1</sup>		
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> excluding ENGL 207 and ENGL 236.

### NAMED OPTIONS

Students may complete a named option, instead of the traditional English major. These are formally printed on the transcript.

View as listView as grid

- ENGLISH: EMPHASIS ON CREATIVE WRITING (P. 708)
- ENGLISH: ENGLISH LANGUAGE AND LINGUISTICS (P. 709)

### RESIDENCE AND QUALITY OF WORK

2.000 GPA in all ENGL courses and all major courses

2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>2</sup>

15 credits in ENGL, taken on the UW-Madison campus

<sup>2</sup> Intermediate and Advanced level ENGL courses are considered upper level in the major.

### HONORS IN THE MAJOR

Students may declare Honors in the English major with permission of the major advisor. All English majors, including those declared in either named option, are eligible to complete Honors in the major.

### HONORS IN THE ENGLISH MAJOR REQUIREMENTS

To earn Honors in the Major in English, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all ENGL courses and all major courses
- Complete 12 credits, taken for Honors, with a grade of B or better to include:
  - ENGL 245 and
  - Either:
    - a two-semester Senior Honors Thesis in ENGL 681 and ENGL 682 for a total of 6 credits, or
    - a senior Honors project that includes ENGL 680 and one other 3-credit I/A ENGL course taken for Honors OR
    - ENGL 695 and one other ENGL Creative Writing Workshop taken for Honors

### UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

### LEARNING OUTCOMES

1. (History of literature and language) To demonstrate knowledge of major forms, techniques, social conditions, values, and genres that have shaped the history of English literature and language.
2. (Critical thinking) To be able to discern and integrate divergent and contradictory perspectives, identify and question assumptions, and assess evidence and methods.
3. (Creativity) To generate original ideas and texts, experimenting and taking risks, solving problems, and answering questions in a range of genres and media.
4. (Critical writing) To write original, coherent, and compelling arguments that push beyond summary to analysis and independent and critical thinking in clear prose that meets expectations for grammatical correctness.
5. (Citizenship) To develop empathy by learning about the experiences of others, and to gain an understanding of how we participate in communities (including the classroom) and the public sphere.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A (complete during your first year)		3 Ethnic Studies	3
Quantitative Reasoning A (complete during your first year)		3 Foreign Language (if required)	4
Foreign Language		4 Social Science Breadth	3
Social Science Breadth		4 Physical Science Breadth	3
		Elective	3
	<b>14</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		4 ENGL 201 or 207 (COM-B)	3
ENGL 241		3 ENGL 242	3
ENGL 245		3 English Language or Composition/Rhetoric Requirement	3
Social Science Breadth		3-4 Social Science Breadth	3
INTER-LS 210		1 Biological Science Breadth	3
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits) <sup>1</sup>		Pre-1800 Literature Requirement	3
Natural Science Breadth		3 English I/A Elective	3
Elective		3 Natural Science Breadth	3
American Literature		3 Elective	3
Pre-1800 Literature Requirement <sup>2</sup>		3 Elective	3
Elective		3	
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
English I/A Elective		3 English I/A Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3

Elective	3 Elective	3
	<b>15</b>	<b>15</b>

#### Total Credits 120

#### Footnotes

1

Students must declare a major before 86 credits.

2

See your major advisor if you want to declare English/Creative Writing, Honors in the English major, or plan to study abroad.

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with an English major should enter the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 combined credits of Humanities, Social Science, and Natural Science coursework
- 3-4 units of foreign language

#### First Year

Fall	Credits	Spring	Credits
Ethnic Studies		3 ENGL 201 or 207 (meets Communication B)	3
Literature Breadth		3 ENGL 241 or 242	3
Science Breadth		3 Physical Science Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Foreign Language (if interested in retroactive credit or to reach 4 units) or Elective		3 Elective	3
	<b>15</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
ENGL 241 or 242	3	Pre-1800 Literature course	3
ENGL 245	3	ENGL Elective	3
English Language or Composition & Rhetoric course	3	Social Science Breadth or Elective (Intermediate or Advanced level)	3
Quantitative Reasoning B (if B.A.) or Elective (if B.S.)	3	Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Social Science Breadth	3	Elective (Intermediate or Advanced level)	3
		<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
American Literature course	3	ENGL Elective	3
Pre-1800 Literature course	3	ENGL Elective	3
Biological Science Breadth	3	Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Science Breadth or Elective	3	Electives (Intermediate or Advanced level)	6
Elective (Intermediate or Advanced level)	3		
		<b>15</b>	<b>15</b>

**Total Credits 90****ADVISING AND CAREERS****ACADEMIC ADVISING**

The English department supports majors and perspective majors by offering a comprehensive advising team based on your personal interests. You will find us on the 7th floor of the Helen C. White Building (<https://map.wisc.edu/s/6nfnztsa/>), next to Memorial Union. Our team is here to support students holistically as they navigate their time at UW. To meet our advisors, visit our undergraduate advising page (<https://english.wisc.edu/undergraduate/undergraduate-advising/>) for more information, including how to schedule an appointment.

**CAREERS AND INTERNSHIP ADVISOR****Career & Internship Coordinator**

[careers@english.wisc.edu](mailto:careers@english.wisc.edu) (Career & Internship Coordinator [careers@english.wisc.edu](mailto:careers@english.wisc.edu))  
7195E Helen C. White, 600 North Park Street

English Career Advising (<https://english.wisc.edu/undergraduate/undergraduate-advising/>)

The English Department encourages our majors to begin working on their career exploration and preparation soon after declaring the major. Our career advisor also partners with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to their success.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE****FACULTY**

Professors: Auerbach, Barry, Bearden, Begam, Bernard-Donals, Bow, Britland, Castronovo, A. Dharwadker, V. Dharwadker, Foys, Guyer, Hill, Johnson, Kercheval, Nguyen, Olaniyan, Ortiz-Robles, Purnell, Raimy, Sherrard-Johnson, Shreve, Wanner, M. Young, Yu, Zimmerman

Associate Professors: Allewaert, Calhoun, Cooper, Druschke, Fawaz, Neyrat, Olson, Samuels, Trotter, Vareschi, Wells, Zweck

Assistant Professors: Amine, Cho, Eodoro, Fecu, Grunewald, Huang, Lagman

## RESOURCES AND SCHOLARSHIPS

### WRITING CENTER

The Writing Center (<https://writing.wisc.edu>), located in 6171 Helen C. White Hall, offers free individualized help with writing. Students are welcome to come to the center for help with writing assignments in almost any course. In half-hour tutorials, instructors help students clarify and organize ideas and offer advice about revising a draft. The center also offers short-term classes on various facets of writing, including classes on writing about literature, writing research papers, writing book reviews, writing essay exams, and on many other topics. The Writing Center also has a computer lab.

To make an appointment, students should call 263-1992 or stop by when the center is open. During busy times of the semester, the center often is booked several days in advance, so students should plan ahead. For complete information about the center, including hours, schedules for writing assistance in the Multicultural Student Center and residence halls, extensive handouts about writing, and information about the Undergraduate Writing Fellows program, see the center website (<https://writing.wisc.edu>).

## ENGLISH: EMPHASIS ON CREATIVE WRITING

### REQUIREMENTS

### ENGLISH, CREATIVE WRITING OPTION

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in creative writing may combine a background in literature with a concentration of courses in fiction or poetry writing. The major requirements are distributed as follows:

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course) 3</b>		
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/ AMER IND 246	Literature by American Indian Women	
ENGL/ GEN&WS 248	Women in Ethnic American Literature	
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	

ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	
ENGL 456	Topic in Nineteenth-Century American Literature and Culture	
ENGL 457	Topic in American Literature and Culture since 1900	
ENGL 458	Major American Writer or Writers	
ENGL 459	Three American Novelists	
ENGL 461	Topics in Ethnic and Multicultural Literature	
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	
ENGL/ ASIAN AM 465	Asian American Poetry	
ENGL 474	Topic in Contemporary Literature	
ENGL/ GEN&WS 545	Feminist Theory and Women's Writing in English	
ENGL/ JEWISH 593	Literature of Jewish Identity in America	
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	
<b>Seminar (1 course)</b>		
ENGL 245	Seminar in the Major	3
<b>Language or Composition &amp; Rhetoric (1 course) 3</b>		
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 214	The English Language	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL 400	Advanced Composition	
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	
ENGL 505	Topics in Composition and Rhetoric	
<b>Creative Writing Workshops (3 courses) 9</b>		
ENGL 307	Creative Writing: Fiction and Poetry Workshop	
ENGL 407	Creative Writing: Nonfiction Workshop	
ENGL 408	Creative Writing: Fiction Workshop	
ENGL 409	Creative Writing: Poetry Workshop	
ENGL 410	Creative Writing: Playwriting Workshop	
ENGL 411	Creative Writing: Special Topics Workshop	
ENGL 508	Creative Writing: Advanced Fiction Workshop	
<b>Directed Creative Writing (1 course)</b>		

ENGL 695	Directed Creative Writing	3
<b>Electives</b>		<b>3</b>
any course from ENGL 204-699 <sup>1</sup>		
<b>Total Credits</b>		<b>30</b>

1

excluding ENGL 207 and ENGL 236.

2

Workshops numbered 400 and higher may be repeated for credit. Students are allowed to take only one creative writing workshop per semester. All three required workshops must be completed prior to beginning the Directed Creative Writing course (ENGL 695).

## ENGLISH: ENGLISH LANGUAGE AND LINGUISTICS

### REQUIREMENTS

## ENGLISH, ENGLISH LANGUAGE AND LINGUISTICS OPTION

NOTE: This is a formal Option and will appear on the transcript.

L&S undergraduates with a particular interest in English Language and Linguistics may combine a background in literature with a concentration of courses in the option. The major requirements are distributed as follows:

Code	Title	Credits
<b>Survey of Literature</b>		
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
<b>American Literature (1 course)</b>		<b>3</b>
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	
ENGL 243	American Literary Cultures	
ENGL/ AMER IND 246	Literature by American Indian Women	
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	
ENGL 357	Major American Poets	
ENGL 361	Modern and Contemporary American Literature	
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures	
ENGL 374	African and African Diaspora Literature and Culture	
ENGL 439	Topic in Early American Literature and Culture	
ENGL 455	A Study of an Outstanding Figure or Figures in American Literature	

ENGL 456	Topic in Nineteenth-Century American Literature and Culture
ENGL 457	Topic in American Literature and Culture since 1900
ENGL 458	Major American Writer or Writers
ENGL 459	Three American Novelists
ENGL 461	Topics in Ethnic and Multicultural Literature
ENGL/ ASIAN AM 462	Topic in Asian American Literature
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers
ENGL/ ASIAN AM 465	Asian American Poetry
ENGL 474	Topic in Contemporary Literature
ENGL/ GEN&WS 545	Feminist Theory and Women's Writing in English
ENGL/ JEWISH 593	Literature of Jewish Identity in America
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature

### English Seminar

ENGL 245	Seminar in the Major	3
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### Language or Composition Rhetoric

ENGL 214	The English Language	3
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### English Language and Linguistics Courses

ENGL 314	Structure of English	3
ENGL 315	English Phonology	3
ENGL 514	English Syntax	3
or ENGL 516	English Grammar in Use	

### Electives

<b>6</b>		
ENGL 204	Studies in Writing, Rhetoric, and Literacy	
ENGL 219	Shakespearean Drama	
ENGL 220	Shakespearean Drama	
ENGL 224	Introduction to Poetry	
ENGL/ GEN&WS 248	Women in Ethnic American Literature	
ENGL/ GEN&WS 250	Women in Literature	
ENGL 271	Writing with New Media	
ENGL 279	Topics in English, Study Abroad - Literature	
ENGL 304	Composition & Rhetoric In and Beyond the University	
ENGL/ ENVIR ST 305	Rhetoric, Science, and Public Engagement	
ENGL 307	Creative Writing: Fiction and Poetry Workshop	
ENGL 316	English Language Variation in the U.S.	
ENGL 318	Second Language Acquisition	
ENGL 319	Language, Race, and Identity	

ENGL 320	Linguistic Theory and Child Language	ENGL/ MEDIEVAL 426	Chaucers Courtly Poetry
ENGL 328	The Sixteenth Century	ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales
ENGL 331	Seventeenth-Century Literature and Culture	ENGL 430	Topic in Early Modern Literature and Culture
ENGL 334	Eighteenth Century Literature and Culture	ENGL 431	Early Works of Shakespeare
ENGL 335	Stage and Page in the Long Eighteenth Century	ENGL 432	Later Works of Shakespeare
ENGL 336	Eighteenth-Century Novel	ENGL 433	Spenser
ENGL 340	Romantic Literature and Culture	ENGL/ RELIG ST 434	Milton
ENGL 345	Nineteenth-Century Novel	ENGL 438	Topic in Eighteenth-Century Literature and Culture
ENGL 346	Victorian Poetry	ENGL 443	Outstanding Figure(s) in Literature since 1800
ENGL/ GEN&WS 350	Special Topics in Gender & Literature	ENGL 444	Topic in Romantic or Victorian Literature and Culture
ENGL 351	Modernist Novel	ENGL 446	Romantic Autobiographies
ENGL 352	Modernist Poetry	ENGL 453	Topic in British Literature and Culture since 1900
ENGL 353	British Literature since 1900	ENGL 454	James Joyce
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	ENGL 469	Interdisciplinary Studies in the Arts
ENGL 373	Contemporary Poetry	ENGL 473	Topic in Postcolonial or World Literature
ENGL 375	Literatures of Migration and Diaspora	ENGL/ THEATRE 477	Diaspora and Theatre
ENGL 376	Literature and Animal Studies	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
ENGL 379	Postcolonial and World Literature	ENGL 481	Junior Honors Seminar in the Major
ENGL 400	Advanced Composition	ENGL 505	Topics in Composition and Rhetoric
ENGL/ GEN&WS 401	Race, Sex, and Texts (How to do things with writing)	ENGL 508	Creative Writing: Advanced Fiction Workshop
ENGL 403	Seminar on Tutoring Writing Across the Curriculum	ENGL 516	English Grammar in Use
ENGL 407	Creative Writing: Nonfiction Workshop	ENGL/ MEDIEVAL 520	Old English
ENGL 408	Creative Writing: Fiction Workshop	ENGL/ MEDIEVAL 521	Advanced Old English Literature
ENGL 409	Creative Writing: Poetry Workshop	ENGL/HIST SCI/ MED HIST 525	Health and the Humanities
ENGL 410	Creative Writing: Playwriting Workshop	ENGL 531	Humans, Non-Humans, Post-Humans
ENGL 411	Creative Writing: Special Topics Workshop	ENGL/ ENVIR ST 533	Topic in Literature and the Environment
ENGL 413	English Words: Grammar, Culture, Mind	ENGL 537	Sex, Love, and Power: Topic in Literature and Sexuality
ENGL 414	Global Spread of English	ENGL/ JEWISH 539	Jewish Literatures in Diaspora
ENGL 415	Introduction to TESOL Methods	ENGL 543	Discourses of Disability, Antiquity to 1800
ENGL 416	English in Society	ENGL 544	Modern Discourses of Disability
ENGL 417	History of the English Language	ENGL 546	Topic in Travel Writing before 1800
ENGL 420	Topics in English Language and Linguistics	ENGL 548	Topic in Literature and Politics
ENGL 422	Outstanding Figure(s) in Literature before 1800	ENGL 559	Topic in Literary or Cultural Theory
ENGL/ MEDIEVAL 423	Topic in Medieval Literature and Culture	ENGL 561	Modern Critical Theories
ENGL/ MEDIEVAL 424	Medieval Drama	ENGL 571	Remix, Mashup, and Digital Design
ENGL/ MEDIEVAL 425	Medieval Romance		

ENGL 572	Smart Media & Critical Information Design
ENGL/ THEATRE 575	British Drama, 1914 to Present
ENGL/ THEATRE 576	Survey: Theories of Drama
ENGL/ THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
ENGL/ THEATRE 578	Modern American Drama and Theatre
ENGL 622	Topics in English: Study Abroad
ENGL 656	Theatre of the Avant-Garde, 1850-1950
ENGL 680	Honors Project
ENGL 681	Senior Honors Thesis in the Major
ENGL 682	Senior Honors Thesis in the Major
ENGL 691	Senior Thesis
ENGL 692	Senior Thesis
ENGL 695	Directed Creative Writing
ENGL 699	Directed Study

**Total Credits****30**

## HEALTH AND THE HUMANITIES, CERTIFICATE

The humanities are about the human experience, and this certificate will give you exposure to a range of historical, cultural, and philosophical reasons why people make decisions about their health care. Everyone who comes in contact with the health care system, from health care providers to patients, needs to understand more than just the biological aspects of medicine in order to support health and wellness.

### LEARNING GOALS

After completing the certificate, you will be able to:

- Identify major developments in the history of medicine and the medical profession
- Describe how the meaning of "health" has varied over time and space
- Comprehend and evaluate complex arguments about politics, values, healthcare, and health in contemporary society
- Understand health and illness as grounded in personal experience, develop empathy for others' experiences, and use creative means to reflect on those experiences
- Display sensitivity for what health means among differently positioned people

To learn more about Health-related resources, events, and opportunities on campus, visit our website. (<https://english.wisc.edu/programs/health-and-humanities-certificate-overview/>)

## HOW TO GET IN

### CERTIFICATE DECLARATION REQUIREMENTS

- Must be an enrolled in an undergraduate degree program at UW-Madison
- Attend a certificate information session (<https://english.wisc.edu/programs/health-and-humanities-certificate-overview/health-and-humanities-certificate-how-to-get-in/>).
- Complete one of these Core Courses with a grade of C or higher (see Requirements).
- Submit an application form and essay. Check our webpage (<https://english.wisc.edu/programs/health-and-humanities-certificate-overview/>) for details about the next application cycle.
- If selected for the program, meet with the certificate advisor (<https://english.wisc.edu/programs/health-and-humanities-certificate-overview/advising/>) to declare the certificate and plan your coursework.
- Students who declare the Health and the Humanities certificate are not eligible to declare the Global Health major or the Global Health certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Complete at least 15 credits from the areas prescribed below.

#### CORE COURSE

Complete one of the following:

Code	Title	Credits
ANTHRO 265	Introduction to Culture and Health	3
ENGL 156	Literature and Medicine	3
HIST SCI 133	Biology and Society, 1950 - Today	3
HIST SCI/ MED HIST 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	3
MED HIST/ ANTHRO 231	Introduction to Social Medicine	3
RELIG ST 102	Exploring Religion in Sickness and Health	3

### HEALTH AND ILLNESS IN SOCIAL CONTEXT

Complete two courses with a specific focus on health and illness in social context:

Code	Title	Credits
AMER IND/ C&E SOC/SOC 578	Poverty and Place	3
ANTHRO 365	Medical Anthropology	3
COM ARTS 317	Rhetoric and Health	3
ENGL/ASIAN AM/ GEN&WS 463	Race and Sexuality in American Literature	3

FRENCH 464	Literature and Medicine in French-Speaking Cultures	3	SOC 575	Sociological Perspectives on the Life Course and Aging	3
GEN&WS 340	Topics in LGBTQ Sexuality	3	<b>CULTURAL COMPETENCY</b>		
GEN&WS 370	Topics in Gender and Disability	3	Complete one course aimed at understanding the social, cultural, and linguistic needs of patients:		
GEN&WS 533	Special Topics in Gender and Biology	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
GEN&WS/ HIST SCI 537	Childbirth in the United States	3	AFRICAN 201	Introduction to African Literature	3
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3	AFRICAN 230	Introduction to Yoruba Life and Culture	3
MED HIST/ PHILOS 505	Justice and Health Care	3	AFRICAN 231	Introduction to Arabic Literary Culture	3
MED HIST/HIST SCI/ HISTORY 507	Health, Disease and Healing I	3-4	AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
MED HIST/HIST SCI/ HISTORY 508	Health, Disease and Healing II	3-4	AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	3-4
MED HIST/ HIST SCI 509	The Development of Public Health in America	3	AFRICAN 412	Contemporary African Fiction	3-4
MED HIST/ PHILOS 515	Public Health Ethics	3	AFROAMER 151	Introduction to Contemporary Afro-American Society	3
MED HIST/ AFROAMER/ HIST SCI 523	Race, American Medicine and Public Health	3	AFROAMER 155	They: Race in American Literature	3
MED HIST/ GEN&WS/ HIST SCI 531	Women and Health in American History	3	AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3
MED HIST/HIST SCI/ RELIG ST 331	Science, Medicine and Religion	3	AFROAMER 225	Introduction to African American Dramatic Literature	3
RELIG ST/ JEWISH 340	The American Jewish Life of DNA	3	AFROAMER 227	Masterpieces of African American Literature	3
RELIG ST/ FOLKLORE 352	Shamanism	3	AMER IND 100	Introduction to American Indian Studies	3
MED HIST/ GEN&WS/ HIST SCI 532	The History of the (American) Body	3	ANTHRO 104	Cultural Anthropology and Human Diversity	3
RELIG ST/ ASIAN 505	The Perfectible Body in Religions, Medicines, and Politics	3	ASIAN AM 101	Introduction to Asian American Studies	3
HIST SCI 404	A History of Disease	3-4	ASIAN AM/ AFROAMER/ AMER IND/CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3
PHILOS/ MED HIST 534	Ethics and the Brain	3	ASIAN AM 240	Topics in Asian American Studies	3
S&A PHM/ HIST SCI 401	History of Pharmacy	2	CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
MED HIST/ PHILOS 558	Ethical Issues in Health Care	3	CHICLA 210	Chicana/o and Latina/o Cultural Studies	3
MED HIST/HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	3
MED HIST/ AGRONOMY/ C&E SOC/ PHILOS 565	The Ethics of Modern Biotechnology	3	COM ARTS 565	Communication and Interethnic Behavior	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3	GEN&WS 101	Gender, Women, and Cultural Representation	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
			GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
			GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3



GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
RELIG ST 101	Religion in Global Perspective	3
SOC 125	American Society: How It Really Works	3-4
SOC 134	Sociology of Race & Ethnicity in the United States	3-4
SOC 138	The Sociology of Gender	3-4
SOC/GEN&WS 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
RELIG ST 311	Sects and Cults	3
RELIG ST 406	The Amish	3
RELIG ST/ AFROAMER 404	African American Religions	3

## CAPSTONE

Complete one of the following health-focused service learning course:

Code	Title	Credits
HIST SCI/ENGL/ MED HIST 525	Health and the Humanities	3
NURSING 511	Community Supports for People with Dementia	3
RP & SE 300	Individuals with Disabilities	3
DANCE 231	Introduction to Dance/Movement Therapy	2
DANCE 232	Introduction to Dynamics of Dance Therapy	2

## ELECTIVE (IF NEEDED)

Complete additional coursework to reach 15 credits from any of the courses listed above or ENGL/HIST SCI/MED HIST 599 Directed Study in Health and the Humanities

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all Certificate courses
- At least 8 Certificate credits in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Identify major developments in the history of medicine and the medical profession.

2. Describe how the meaning of "health" has varied over time and space.
3. Comprehend and evaluate complex arguments about politics, values, healthcare, and health in contemporary society.
4. Understand health and illness as grounded in personal experience, develop empathy for others' experiences and use creative means to reflect on those experiences.
5. Develop sensitivity for what health means among differently positioned people (e.g., with respect to race, class, gender, culture, disability, age).

## ADVISING AND CAREERS

To learn more about the HatH advisor or schedule an appointment, visit advising and careers (<https://english.wisc.edu/programs/health-and-humanities-certificate-overview/advising/>) on our website.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Certificate Director: Nicole C. Nelson, Medical History and Bioethics

Certificate Steering Committee:

- Monique Allewaert, English
- Lisa Bratzke, School of Nursing
- Anthony Cerulli, Asian Languages and Cultures

- Elizabeth Currier, Center for Pre-Health Advising
- Judy Houck, History
- Jenell Johnson, Communication Arts
- Neil Kodesh, History
- Rena Kornblum, Dance
- Susan Nelson, Gender and Women's Studies
- Corrie Norman, Religious Studies
- Lucas Richert, School of Pharmacy
- Jelena Todorovic, French and Italian
- Anne Vila, French and Italian
- Claire Wendland, Anthropology
- Sunny Yudkoff, Center for Jewish Studies

Advisor: hathadvisor@english.wisc.edu

## TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES, CERTIFICATE

A certificate in teaching English to speakers of other languages (TESOL) is available to undergraduate students who wish to teach English as a foreign or second language, normally in positions abroad. Native English speakers must have the equivalent of four college-level semesters of one language including its spoken form. For nonnative English speakers, English is the foreign language. Nonnative English speakers must have a score of at least 50 on TSE or SPEAK and or 26 on the iBt speaking section and a TOEFL score of 100 on the iBt or 600 on the paper version. A score of 84 on the MELAB or 7 on the IELTS can be substituted for the TOEFL. Students must maintain a GPA of 3.000 based on all courses except for the TESOL Workshops which are graded pass/fail.

### HOW TO GET IN

Fill out the online application and submit to the ESL office. Students should apply as early as possible (after the sophomore year if they are undergraduates) to allow enough time to complete the requirements.

Download the **Undergraduate Application**.

Academic requirements for the program are:

**For Undergraduates:** Enrollment in any one of the required certificate courses and a degree program at UW-Madison.

Native English speakers must show completion of four college-level semesters of one language (prior to or completed concurrently with certificate coursework).

Nonnative English speakers are required to show English language proficiency in the following ways:

- A minimum score of 50 on TSE or SPEAK or an iBy score of 26 on the speaking section of the TOEFL
- A minimum score of 100 on the TOEFL iBT or 600 on the paper-based version of the TOEFL or 7 on the IELTS (International English Language Testing System) can be substituted for the TOEFL.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

15 credits of course work include:

Code	Title	Credits
Foundation Courses		
ENGL 314	Structure of English	3
ENGL 415	Introduction to TESOL Methods	3
Second Language Acquisition and Teaching Courses		
ENGL 318	Second Language Acquisition	3
ENGL 515	Techniques and Materials for TESOL	3
Students must take 3 credits of TESOL Workshops.		
ENGL 613	TESOL: Pedagogical Grammar I	
ENGL 614	TESOL: Pedagogical Grammar II	
ENGL 615	TESOL: Teaching Listening and Speaking	
ENGL 616	TESOL: Teaching of Reading	
ENGL 617	TESOL: Teaching of Writing	
ENGL 618	TESOL: Teaching Pronunciation	

**Total Credits** **15**

### RESIDENCE AND QUALITY OF WORK

- Minimum 3.000 GPA in all courses approved for the certificate
- At least 8 certificate credits must be completed in residence

### UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

### LEARNING OUTCOMES

1. Demonstrate knowledge in the historical trends in the field, the theoretical underpinnings and the role of English in society and as an international language.
2. Become familiar with the sound and grammatical systems of English.
3. Understand and apply basic principles in the teaching of reading, writing, listening and speaking.
4. Understand the principles of second language acquisition.
5. Construct and execute well-crafted lesson plans.

## ADVISING AND CAREERS

Undergraduate and graduate students who are interested in the TESOL Certificate Program can reach out to [asktesol@english.wisc.edu](mailto:asktesol@english.wisc.edu) for general advising issues.

For current certificate students, please email Joseph Nosek, TESOL Program Advisor, at [joseph.nosek@wisc.edu](mailto:joseph.nosek@wisc.edu) or Vivian Ye, TESOL Program Coordinator, at [jye83@wisc.edu](mailto:jye83@wisc.edu).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
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  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY & INSTRUCTIONAL STAFF

Joseph Nosek (ESL Director, TESOL Certificate Advisor)

Andrea Poulos (ENG 515 Instructor)

Juliet Huynh (ENG 313/318 Instructor)

## ENVIRONMENTAL STUDIES

### DEGREES/MAJORS/CERTIFICATES

- Environmental Studies Major (p. 723)

## ENVIRONMENTAL STUDIES MAJOR

### WHY CHOOSE AN ENVIRONMENTAL STUDIES MAJOR?

The Gaylord Nelson Institute for Environmental Studies is one of the world's leading institutions for environmental studies and is the administrative home for the major. The major offers a robust and interdisciplinary curriculum that spans all contemporary disciplines that touch upon the environment. The curriculum includes biological sciences, physical sciences, and social sciences, as well as humanities, history, health, and modern culture.

The environmental studies major, offered by the College of Letters & Science and administered by the Nelson Institute for Environmental Studies, provides unique opportunities for undergraduate students to broaden their studies through interdisciplinary coursework related to the environment. **The major must always be completed in tandem with a second major.** This requirement is unique to the environmental studies major and allows undergraduates the opportunity to both broaden and deepen the focus of their other major with a perspective on the environment that spans a wide range of topics, and involves varying depths of application.

The major includes experiential learning opportunities via the capstone course and the field requirement, and encourages global interaction through study or internships abroad. With numerous travel abroad possibilities and ongoing access to a large selection of extracurricular events, graduates have countless combinations available to them. The outcome is a solid academic foundation in the study of the environment and access to a network of multidisciplinary problem-solving colleagues.

In today's world, the program prepares students to address modern challenges using interdisciplinary problem-solving approaches, applying both an understanding of, and practical experience beyond, a single academic discipline. Employers purposefully seek individuals with interdisciplinary and international preparation, and environmental studies students are ready to meet that need.

Click here to see a complete list of faculty and staff affiliated with the Nelson Institute (<http://nelson.wisc.edu/people/>).

The Nelson Institute also offers two undergraduate certificates:

Environmental Studies Certificate (p. 1444)  
Sustainability Certificate (p. 1450)

## HOW TO GET IN

### DECLARING THE MAJOR

Students interested in declaring the Environmental Studies major should request a major declaration appointment. Information about declaring the major can be found at undergraduate advising (<https://nelson.wisc.edu/undergraduate/advising.php>).

Students who earn the Environmental Studies major may not also earn the Environmental Studies Certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL/COLLEGE REQUIREMENTS

The Environmental Studies major is always paired with another major. Please refer to the School/College degree requirements of the other major to learn about degree requirements or consult an advisor.

### REQUIREMENTS FOR THE MAJOR

The environmental studies major provides students with an academically rigorous course sequence that encompasses introductory through advanced understandings of the interdisciplinary field of environmental studies. Students must have a declared primary major, and are allowed to apply a portion of course work from that major for the environmental studies major, making it possible to complete their degree within four years.

- **30 credits in the major as defined below.**
- Declare and complete a primary major. **Students must have a primary major declared before reaching senior standing (86 credits) or the environmental studies major may be canceled.**
- At least 15 credits taken for the environmental studies major must be distinct, and not also meeting minimum requirements in another major.
- Students outside the College of Letters & Science may have to meet additional overlap requirements.

### FOUNDATION (12 CREDITS)

**One course from each of the following four areas.** Courses applied to Foundation cannot also be used in Theme or Capstone.

#### Environmental Humanities (3 credits)

Code	Title	Credits
ENVIR ST 113	Environmental Studies: Environmental Humanities	3
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
ENVIR ST/ RELIG ST 270	The Environment: Religion & Ethics	3-4
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
ENVIR ST/ HISTORY 465	Global Environmental History	3-4
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4

#### Environmental Social Science (3 credits)

Code	Title	Credits
ENVIR ST 112	Environmental Studies: Social Science Perspectives	3
ENVIR ST/ GEOG 139	Global Environmental Issues	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
ENVIR ST/A A E 244	The Environment and the Global Economy	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
ENVIR ST/ GEOG 339	Environmental Conservation	4

#### Environmental Physical Science (3 credits)

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	4
ENVIR ST/ GEOSCI 106	Environmental Geology	3
PHYSICS 115	Energy and Climate	3
ENVIR ST/ GEOG 120	Introduction to the Earth System	3
ENVIR ST/ILS 126	Principles of Environmental Science	4
ENVIR ST/GEOG 127	Physical Systems of the Environment	5
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3

ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
SOIL SCI 301	General Soil Science	3
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
ENVIR ST/ ATM OCN/GEOG/ GEOSCI 335	Climatic Environments of the Past	3

### Environmental Ecology (3 credits)

Code	Title	Credits
GEOSCI 110	Evolution and Extinction	4
BOTANY 240	Plants and Humans	3
ENVIR ST 251	Ecology and the Global Environment	3
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3
F&W ECOL 401	Physiological Animal Ecology	3
ENVIR ST 413	Preserving Nature	3
F&W ECOL/ BOTANY/ ZOOLOGY 460	General Ecology	4
F&W ECOL 550	Forest Ecology	3

### THEME (15 CREDITS)

**Five courses and 15 credits** from any of the areas below. Courses may be concentrated in one area or distributed across multiple areas. Courses applied to the thematic areas cannot also be used in Foundation or Capstone.

#### Biodiversity

Code	Title	Credits
ENVIR ST/ F&W ECOL 100	Forests of the World	3
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOSCI 110	Evolution and Extinction	4
BIOCORE 181	Becoming a Scientist: Doing Biology Research	2
ENVIR ST/ ENTOM 201	Insects and Human Culture-a Survey Course in Entomology	3
BOTANY 240	Plants and Humans	3
ENVIR ST 251	Ecology and the Global Environment	3
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
GEOG/BOTANY 338	Environmental Biogeography	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3

SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology	3
ENVIR ST 375	Field Ecology Workshop	3
BOTANY 401	Vascular Flora of Wisconsin	4
F&W ECOL 401	Physiological Animal Ecology	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
ENVIR ST 413	Preserving Nature	3
BOTANY 422	Plant Geography	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
F&W ECOL 448	Disturbance Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM 490	Biodiversity and Global Change	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics	3
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
ENVIR ST 613	Reproducibility and Open Science in Ecological Research	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BOTANY/ F&W ECOL/ ZOOLOGY 672	Historical Ecology	2

  

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	4
ENVIR ST/ ATM OCN/ GEOSCI 102	Climate and Climate Change	3
ENVIR ST/ ATM OCN 171	Global Change: Atmospheric Issues and Problems	2-3
SOIL SCI 211	Soils and Climate Change	2

A A E 246	Climate Change Economics and Policy	3
ED POL 320	Climate Change, Sustainability, and Education	3
ENVIR ST/ ATM OCN/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
ENVIR ST/ ATM OCN/ GEOG/	Climatic Environments of the Past	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ ATM OCN 355	Introduction to Air Quality	3
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	3
ATM OCN 425	Global Climate Processes	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems	3
ENVIR ST/ ATM OCN 520	Bioclimatology	3
ATM OCN 522	Tropical Meteorology	3
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change	3
ENVIR ST/ ATM OCN/ GEOG 528	Past Climates and Climatic Change	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3

## Energy

Code	Title	Credits
PHYSICS 115	Energy and Climate	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
ENVIR ST/ BSE 367	Renewable Energy Systems	3
A A E/ ECON 371	Energy, Resources and Economics	3
ENVIR ST/ GEOSCI 411	Energy Resources	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
M E 461	Thermal Systems Modeling	3
M E 466	Air Pollution Effects, Measurements and Control	3
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3
ENVIR ST/ A A E/ CIV ENGR/ URB R PL 561	Energy Markets	3

ENVIR ST/ A A E/ ECON/ URB R PL 671	Energy Economics	3
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## Food and Agriculture

Code	Title	Credits
ENVIR ST/ AGROECOL/ AGRONOMY/ C&E SOC/ ENTOM 103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3
ENVIR ST 117	GreenHouse Roots Seminar	1
FOOD SCI 120	Science of Food	3
NUTR SCI 132	Nutrition Today	3
SOIL SCI 211	Soils and Climate Change	2
SOC/ C&E SOC 222	Food, Culture, and Society	3
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	3
AGRONOMY 300	Cropping Systems	3
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
HORT 333	Survey of Controlled Environment Food Production	2
A A E/ C&E SOC/ SOC 340	Issues in Food Systems	3-4
MED HIST/ PHILOS 344	Food Ethics	3
NUTR SCI/ A A E/ AGRONOMY 350	World Hunger and Malnutrition	3
CNSR SCI 360	Sustainable and Socially Just Consumption	3
HORT 370	World Vegetable Crops	3
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
AGRONOMY 377	Global Food Production and Health	3
FOLKLORE 439	Foodways	3
SOC/ C&E SOC 650	Sociology of Agriculture	3

## Health

Code	Title	Credits
ENVIR ST/ ENTOM 205	Our Planet, Our Health	3
ENVIR ST/ HIST SCI 213	Global Environmental Health: An Interdisciplinary Introduction	3
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
CIV ENGR 422	Elements of Public Health Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
SOIL SCI 430	Environmental Soil Contamination	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3

ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	ED POL 320	Climate Change, Sustainability, and Education	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3	ENVIR ST/ HISTORY 328	Environmental History of Europe	3
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society	3	F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3	ENVIR ST/ GEOG 337	Nature, Power and Society	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1	ENVIR ST/ GEOG 339	Environmental Conservation	4
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1	ENVIR ST/ AMER IND 341	Indigenous Environmental Communicators	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1	ENVIR ST/ HIST SCI 353	History of Ecology	3
<b>History, Culture, Society</b>			ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
<b>Code</b>	<b>Title</b>	<b>Credits</b>	LAND ARC 360	Earth Partnership Restoration Education: Indigenous Arts & Sciences	1
ENVIR ST 112	Environmental Studies: Social Science Perspectives	3	ENVIR ST/ HISTORY 369	Thinking through History with Animals	3-4
ENVIR ST 113	Environmental Studies: Environmental Humanities	3	AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3	ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
ENVIR ST/ILS 126	Principles of Environmental Science	4	ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/ GEOG 139	Global Environmental Issues	3	LSC/AMER IND 444	Native American Environmental Issues and the Media	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4	ENVIR ST/ SPANISH 445	Culture and the Environment in the Luso-Hispanic World	3
HISTORY/ CHICLA 151	The North American West to 1850	3-4	ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4	ENVIR ST/ HISTORY 465	Global Environmental History	3-4
ENVIR ST/ENGL 153	Literature and the Environment	3	ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4
AMER IND/ HISTORY 190	Introduction to American Indian History	3-4	ANTHRO 477	Anthropology, Environment, and Development	3
GNS/ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3	ENVIR ST/ CLASSICS 488	Greeks, Romans and the Natural Environment	3
ENVIR ST 239		3-4	ENGL/ ENVIR ST 533	Topic in Literature and the Environment	3
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3	ENVIR ST/ GEOG 537	Culture and Environment	4
ENVIR ST/ RELIG ST 270	The Environment: Religion & Ethics	3-4	ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3
ENVIR ST/ ENGL 305	Rhetoric, Science, and Public Engagement	3	BOTANY/ F&W ECOL/ ZOOLOGY 672	Historical Ecology	2
ENVIR ST/ AMER IND 306	Indigenous Peoples and the Environment	3	<b>Land Use</b>		
ENVIR ST 307	Literature of the Environment: Speaking for Nature	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ENVIR ST 308	Outdoors For All: Inequities in Environmentalism	3	ENVIR ST/ GEOSCI 106	Environmental Geology	3
ENVIR ST 317	Community Environmental Scholars Program Seminar	1	ENVIR ST/ GEOG 120	Introduction to the Earth System	3

ENVIR ST/GEOG 127	Physical Systems of the Environment	5	ENVIR ST/ GEOG 537	Culture and Environment	4
LAND ARC 211	Shaping the Built Environment	3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3	ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3
SOIL SCI 301	General Soil Science	3	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1	LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
GEOG/ URB R PL 305	Introduction to the City	3-4	URB R PL 601	Site Planning	3
A A E/ECON/ REAL EST/ URB R PL 306	The Real Estate Process	3	ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	LAND ARC 668	Restoration Ecology	3
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2	LAND ARC 677	Cultural Resource Preservation and Landscape History	3
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality	3	ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3
ENVIR ST/ GEOG 333	Green Urbanism	3	<b>Policy</b>		
ENVIR ST/ GEOG 337	Nature, Power and Society	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
BOTANY/GEOG 338	Environmental Biogeography	3	URB R PL 215	Welcome to Your Urban Future	3
ENVIR ST/ GEOG 339	Environmental Conservation	4	A A E/ENVIR ST 244	The Environment and the Global Economy	4
GEOG 344	Changing Landscapes of the American West	3	POLI SCI 272	Introduction to Public Policy	3-4
CNSR SCI 360	Sustainable and Socially Just Consumption	3	ENVIR ST/ ENGL 305	Rhetoric, Science, and Public Engagement	3
LAND ARC 380	Plants for Ecological Design I	2	ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
LAND ARC 381	Plants for Ecological Design II	1	M H R 310	Challenges & Solutions in Business Sustainability	3
F&W ECOL 410	Principles of Silviculture	3	ENVIR ST/ GEOG 339	Environmental Conservation	4
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3	ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
SOIL SCI 430	Environmental Soil Contamination	3	ENVIR ST/ AMER IND/ GEOG 345	Managing Nature in Native North America	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3	ENVIR ST 349	Climate Change Governance	3
LSC/AMER IND 444	Native American Environmental Issues and the Media	3	PUB AFFR 366	U.S. Environmental Politics and Public Policy	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4	OTM 370	Sustainable Approaches to System Improvement	3
F&W ECOL/ SOIL SCI 451	Environmental Biogeochemistry	3	ENVIR ST/C&E SOC/ CURRIC 405	Education for Sustainable Communities	3
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4	F&W ECOL 410	Principles of Silviculture	3
LAND ARC/ URB R PL 463	Evolution of American Planning	3	ENVIR ST 417	Sustainability Science, Technology and Policy	1
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	3	ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
LAND ARC 511	Geodesign Methods and Applications	3	ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	LSC/AMER IND 444	Native American Environmental Issues and the Media	3



ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
CIV ENGR 522	Hazardous Waste Management	3
ENVIR ST/ PHILOS 523	Philosophical Problems of the Biological Sciences	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ENVIR ST/ GEOG 534	Environmental Governance: Markets, States and Nature	3
ENVIR ST/C&E SOC/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
URB R PL 551	Climate Action Planning: Sustainable Transportation	3
ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3
SOC/C&E SOC 573	Community Organization and Change	3
ENVIR ST 613	Reproducibility and Open Science in Ecological Research	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
SOC/ECON 663	Population and Society	3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3

### Geospatial Analysis

Code	Title	Credits
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	3
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	3
LAND ARC 511	Geodesign Methods and Applications	3
ENVIR ST/GEOG/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	3

ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3
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### Water

Code	Title	Credits
ATM OCN/ GEOSCI 105	Survey of Oceanography	3-4
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
CIV ENGR 311	Hydroscience	3
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3
SOIL SCI 322	Physical Principles of Soil and Water Management	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BSE 473	Water Management Systems	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
G L E/GEOSCI 627	Hydrogeology	3-4
G L E/GEOSCI 629	Contaminant Hydrogeology	3

### Multi-thematic

Code	Title	Credits
ENVIR ST/ SOIL SCI 101	Forum on the Environment	1-2
ENVIR ST 202	Careers in the Environment	2
ENVIR ST 203	Special Topics in Environmental Studies	1-3
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
ENVIR ST 398	Independent Study: Sustainability Community Engagement	1
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences	1-4
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies	1-4
ENVIR ST 403	Special Topics in Environmental Studies	1-3
ENVIR ST 404	Special Topics in Environmental Humanities	1-3

### FIELD EXPERIENCE

The field experience in the Environmental Studies major can be met in one of the following ways:

- A course from the list below. Courses used to meet the field experience requirement may also be used in other areas of the curriculum.
- Participation in an environmental study abroad program where 50% or more of the contact hours are in an out-of-doors situation (see your advisor)
- Participation in an environmental internship or similar experience where 50% or more of the contact hours are in an out-of-doors situation (field form summary **must** be submitted)

Code	Title	Credits
ENVIR ST/ILS 126	Principles of Environmental Science	4
ENVIR ST/GEOG 127	Physical Systems of the Environment	5
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
ENVIR ST 375	Field Ecology Workshop	3
ENVIR ST 398	Independent Study: Sustainability Community Engagement	1
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
F&W ECOL 551	Forest Ecology Lab	1
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
LAND ARC 668	Restoration Ecology	3

## CAPSTONE REQUIREMENT (3 CREDITS)

3 credits from:

Code	Title	Credits
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
ENVIR ST 600	Environmental Studies Capstone	3
ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

- 2.000 GPA in all ENVIR ST courses and courses in the major
- 2.000 GPA on 15 upper-level major credits, taken in Residence. Intermediate and Advanced level courses in the major are considered upper level.
- 15 credits in ENVIR ST or in the major, taken on campus (at UW-Madison)

## HONORS IN THE MAJOR

Honors in the Major is not available in Environmental Studies.

## LEARNING OUTCOMES

1. Explain the social and historical processes that impact current environments and sustainability issues. Interpret the meanings, values, and systems that are created, shaped, and revealed as humans interact with and modify the environments they inhabit.
2. Explain systemic and ecological processes and fundamental principles of environmental sciences relating to humanity's key environmental challenges of the past, present, and future.
3. Analyze and respond to questions in environment and sustainability by applying interdisciplinary approaches that integrate multiple perspectives, including those from a coordinate major.
4. Recognize through critical thinking a diversity of viewpoints, ethical commitments, and disciplinary approaches to environmental and sustainability concerns across various scales from the local to the global.
5. Demonstrate excellent reading, writing, communication, and research skills, both individually and in interdisciplinary teams.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Coordinate major course		3 Coordinate major course	3
Quantitative Reasoning A	3	ENVIR ST Humanities foundation course (H) (e.g. ENVIR ST 113)	3
Foreign Language	4	Communication A (complete during your first year)	3
ENVIR ST Soc Sci foundation (S) (e.g. ENVIR ST 112)	3-4	Foreign Language/ Elective	4
		Elective	3
<b>14</b>		<b>16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3-5	Communication B	4
ENVIR ST 306 (counts for Ethnic Studies)	3	INTER-LS 210: Taking Initiative	2

ENVIR ST Eco Sci foundation (B) (e.g. ENVIR ST 260)	3-4 ENVIR ST Physical Sci foundation (P) (e.g. ENVIR ST 126)	3
Coordinate major course	3-4 Coordinate major course	3
	Elective	3
<b>15</b>		<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
Coordinate major course	3	Coordinate major course	3
ENVIR ST theme	3-4	Coordinate major course	3
ENVIR ST theme	3-4	ENVIR ST theme	3-4
L&S Breadth/Elective	3	ENVIR ST theme	3-4
L&S Breadth/Elective	3	L&S Breadth/Elective	3
<b>15</b>		<b>15</b>	

**Senior**

Fall	Credits	Spring	Credits
Coordinate major course	3	Coordinate major course	3
Coordinate major course	3	ENVIR ST Capstone or remaining theme	3-4
ENVIR ST Capstone or remaining theme	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 120**

## ADVISING AND CAREERS

The environmental studies major (<https://nelson.wisc.edu/undergraduate/environmental-studies-major/>) offers unique opportunities for undergraduate students to broaden their studies through interdisciplinary course work related to the environment. See undergraduate advising (<https://nelson.wisc.edu/undergraduate/advising/>) for more information about declaring the major or certificate.

Environmental studies students are represented in majors all across campus and in most undergraduate schools and colleges. Environmental studies majors should utilize the career office for their home school as appropriate. All students, not just L&S students, can also benefit from SuccessWorks at the College of Letters & Science.

We encourage our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## FRENCH AND ITALIAN

Our undergraduate programs in French (<https://frit.wisc.edu/undergraduate-programs-in-french/>) and Italian (<https://frit.wisc.edu/undergraduate-programs-in-italian/>) feature an array of courses in language, literature, culture, professional communication and film. Available to speakers at all levels and based in the humanist tradition, our courses are designed to help students develop proficiency in the language, deepen their knowledge of the literature and culture of the places where that language is spoken, and become more marketable for jobs, graduate and professional programs, and a myriad forms of service, both public and private.

## PLACEMENT TEST

Students who have prior language experience in French or Italian should take a placement test. For French, please refer to Testing and Evaluation Services (<https://exams.wisc.edu/placement/uw-madison-students.php>) to register for the placement test. For Italian, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>) for more information about the Informal Italian placement test.

## STUDY ABROAD

For information about study abroad programs, see International Academic Programs (<https://studyabroad.wisc.edu>) and programs in the student's school or college.

## DEGREES/MAJORS/CERTIFICATES

- French, B.A. (p. 732)
- French, B.S. (p. 737)
- French, Certificate (p. 742)
- Italian, B.A. (p. 744)
- Italian, B.S. (p. 747)
- Italian, Certificate (p. 751)

## PEOPLE

### FRENCH FACULTY

Professors Bousquet, Miernowski, Vatan, Vïla

Associate Professors Armstrong, El Nossery, Willis Allen

Faculty Associates Deitz, Theobald

Senior Lecturer Miernowska

### ITALIAN FACULTY

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic

Faculty Associate Eadie

**FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))**

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org/>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW-Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available on the French House website (<https://uwfrenchhouse.org/>).

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

## CLUBS AND OTHER ACTIVITIES

### French

The French Club (<https://win.wisc.edu/organization/frenchclub/>) is a registered student organization run by students involved in the French program and open to any and all UW community members who have an interest in French language and culture. Club members are encouraged to organize and participate in cultural events on campus and in the community. Undergraduates are welcome at scholarly talks and department events on an array of subjects (see department website

(<https://www.frit.wisc.edu/>) and the French House website (<http://uwfrenchhouse.org/>) for event details).

### Italian

The Italian Club (<https://win.wisc.edu/organization/italianclub/>) is a registered student organization run by students involved in the Italian program and open to any and all UW community members who have an interest in Italian culture. Club members are encouraged to organize and participate in cultural events on campus and in the community, including our annual *Cena italiana* in the Spring. Members of the Italian Club and Italian Ambassadors also organize the *Circolo della bella lingua*, a regular language meet-up geared toward allowing students of all levels to practice their Italian speaking in an informal setting. Finally, the *Cineteca Italiana* (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Find us on the Italian Club Facebook Page (<https://www.facebook.com/groups/28276254670/>)! Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu/>) for event details).

## FRENCH, B.A.

The French program at UW-Madison offers students opportunities for cultural and literary learning about the French-speaking world through dynamic, in-class experiences and extracurricular components such as the French House, an immersion residence hall and cultural center, and with French and Francophone cultural events in and around Madison.

Students intending to major in French or complete the certificate enter the program at the appropriate level depending on their language proficiency. If you have previous experience in the French language, please refer to Testing and Evaluation Services (<https://exams.wisc.edu/placement/uw-madison-students.php>) to register for the placement test.

The majority of UW-Madison French majors or certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW-Madison-sponsored program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

For information on teacher training in French, see the School of Education (p. 1543) section in the *Guide*.

For courses in French literature in translation, see the Literature in Translation (<http://guide.wisc.edu/courses/littrans/>) course listing.

## HOW TO GET IN

Students can declare a French major at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the French certificate may not be declared in the French major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR INTRODUCTORY (PREREQUISITE) COURSE

Code	Title	Credits
FRENCH 228	Intermediate Language and Culture	3–4

#### 24 TOTAL CREDITS:

To complete the French major, **24 credits** are needed beyond the introductory (prerequisite) course. Please note that only one course taught in English may count towards the French Major.<sup>4</sup>

### REQUIRED COURSES IN FRENCH/FRANCOPHONE LITERATURE AND CULTURE COMPLETE THE CORE COURSES:

Code	Title	Credits
FRENCH 271	Literature, Comics, and Film in French	3–4
FRENCH 321	Medieval and Early Modern French Literature <sup>5</sup>	3
FRENCH 322	Modern French and Francophone Literature <sup>5</sup>	3
FRENCH 347 or FRENCH 451	Medieval and Early Modern Culture <sup>5</sup> Medieval, Renaissance, and Early Modern Studies	3

### FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE NUMBERED 400 OR ABOVE

Complete One course from:

Code	Title	Credits
FRENCH 420	Topics in French: Study Abroad	1–6
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3

FRENCH 449	Francophone Modernity Studies	3	FRENCH 298	Directed Study	1-3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3	FRENCH 299	Directed Study	1-3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH 464	Literature and Medicine in French-Speaking Cultures	3	FRENCH 325	Visual Culture in French/Francophone Studies	3
FRENCH 465	French/Francophone Film	3	FRENCH 347	Medieval and Early Modern Culture <sup>5</sup>	3
FRENCH 467	Aspects of Contemporary French Literature	3	FRENCH 348	Modernity Studies	3
FRENCH 472	French/Francophone Literature and Women	3	FRENCH 350	Applied French Language Studies	1-3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3	FRENCH 361	Study Abroad: French/Francophone Literature	2-3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3	FRENCH 362	Study Abroad: French/Francophone Civilization	2-3
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3	FRENCH 420	Topics in French: Study Abroad	1-6
FRENCH 626	Critical Approaches to French Literature	3	FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 630	The Age of Reason	3	FRENCH 431	Readings in Early Modern Literature	3
FRENCH 631	17th-Century French Literature	3	FRENCH/ AFRICAN 440	African/Francophone Film <sup>4</sup>	3
FRENCH 633	The 17th-Century Novel	3	FRENCH 449	Francophone Modernity Studies	3
FRENCH 636	The French Novel: 1850-1900	3	FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 637	19th-Century French Literature	3	FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 639	17th-Century Literature	3	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 645	16th-Century French Literature	3	FRENCH 464	Literature and Medicine in French-Speaking Cultures	3
FRENCH 647	The 20th-Century French Novel	3	FRENCH 465	French/Francophone Film	3
FRENCH 653	French and Francophone Cinema	3	FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 665	Introduction to Francophone Studies	3	FRENCH 472	French/Francophone Literature and Women	3
FRENCH 672	Topics in Literature and Culture	3	FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 681	Senior Honors Thesis	3	FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 682	Senior Honors Thesis	3	FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3
FRENCH 691	Thesis	2	FRENCH 626	Critical Approaches to French Literature	3
FRENCH 692	Thesis	2	FRENCH 630	The Age of Reason	3

## ADDITIONAL FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE

### Complete One course from:

Code	Title	Credits
FRENCH 210	Sexuality and Gender in 20th-Century French Literature <sup>4</sup>	3
FRENCH 211	French Literary and Interdisciplinary Studies <sup>4</sup>	3-4
FRENCH/ AFRICAN 216	Modern and Contemporary Francophone Topics <sup>4</sup>	3
FRENCH 248	Ethnic Studies in the French/Francophone World(s) <sup>4</sup>	3
FRENCH 285	Rebellious Women <sup>4</sup>	3-4
FRENCH 288	Doctors without Borders (Médecins Sans Frontières) <sup>4</sup>	3
FRENCH 298	Directed Study	1-3
FRENCH 299	Directed Study	1-3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH 325	Visual Culture in French/Francophone Studies	3
FRENCH 347	Medieval and Early Modern Culture <sup>5</sup>	3
FRENCH 348	Modernity Studies	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 361	Study Abroad: French/Francophone Literature	2-3
FRENCH 362	Study Abroad: French/Francophone Civilization	2-3
FRENCH 420	Topics in French: Study Abroad	1-6
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH/ AFRICAN 440	African/Francophone Film <sup>4</sup>	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 464	Literature and Medicine in French-Speaking Cultures	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3
FRENCH 626	Critical Approaches to French Literature	3
FRENCH 630	The Age of Reason	3
FRENCH 631	17th-Century French Literature	3
FRENCH 633	The 17th-Century Novel	3
FRENCH 636	The French Novel: 1850-1900	3
FRENCH 637	19th-Century French Literature	3
FRENCH 639	17th-Century Literature	3
FRENCH 645	16th-Century French Literature	3
FRENCH 647	The 20th-Century French Novel	3
FRENCH 653	French and Francophone Cinema	3

FRENCH 665	Introduction to Francophone Studies	3
FRENCH 672	Topics in Literature and Culture	3
FRENCH 681	Senior Honors Thesis	3
FRENCH 682	Senior Honors Thesis	3
FRENCH 691	Thesis	2
FRENCH 692	Thesis	2
LITTRANS 209	Masterpieces of French Literature and Culture <sup>4</sup>	3-4
LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces <sup>4</sup>	3
LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century <sup>4</sup>	3
LITTRANS 302	What is Life? Biological Life in Literature and Culture <sup>4</sup>	3-4
LITTRANS 303	Topics in French Literature and Culture <sup>4</sup>	3-4

## LANGUAGE COURSE NUMBERED 300 OR ABOVE

### Complete One course from:

Code	Title	Credits
FRENCH 311	Advanced Composition and Speaking	3
FRENCH 312	Advanced Writing Workshop	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH 316	Study Abroad: Advanced French Language	2-6
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Introduction to Phonetics	3

## ADDITIONAL FRENCH COURSEWORK TO REACH 24 CREDITS

### As needed:

Many French majors will need additional elective credit to reach the 24-credit minimum requirement. Depending on the courses taken from the lists above to meet the other French major requirements, some students may need one or more additional elective course(s) to reach this 24-credit minimum. Courses in FRENCH numbered 300-699 are eligible electives.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all FRENCH and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>1</sup>
- 15 credits in FRENCH taken on campus at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with a French undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all FRENCH courses and all courses counting in the major
- Complete at least 8 credits, taken for Honors, beyond FRENCH 271<sup>2</sup>
- Complete a two-semester Senior Honors Thesis in FRENCH 681 and FRENCH 682, for a total of 6 credits<sup>3</sup>

## FOOTNOTES

<sup>1</sup>

FRENCH 300 and higher are considered upper-level in the major.

<sup>2</sup>

Study abroad in France or in another French-speaking country is highly recommended, and the 8 credits taken for Honors can be fulfilled through French courses taken abroad at the appropriate level.

<sup>3</sup>

In certain circumstances (particularly when the student is an Honors candidate in two or more departments), two courses in literature or cultural studies numbered 500-599 or 600-699 may be substituted for the Senior Honors Thesis.

<sup>4</sup>

Only one course taught in English may count toward the French Major.

<sup>5</sup>

FRENCH 321 Medieval and Early Modern French Literature, FRENCH 322 Modern French and Francophone Literature and FRENCH 347 Medieval and Early Modern Culture are rarely given as course equivalents for courses taken abroad. Students majoring in French who do not take these courses prior to studying abroad will need to take them upon their return.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate that they understand and can analyze literary and non-literary texts in French representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written French to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written French to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the French-speaking world including how these cultural elements relate to literary and non-literary texts in French (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the French language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the French-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the French language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the French language and culture).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
FRENCH 203	4	FRENCH 204	4
Communication A	3	FRENCH 248 (meets Ethnic Studies requirement)	3
Social Science Breadth	3	Social Science Breadth	4
Quantitative Reasoning A	3	Biological Science Breadth	3
Electives	3		
	<b>16</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
FRENCH 228	3	FRENCH 211	3
Quantitative Reasoning B	4	FRENCH 311	3
Social Science Breadth	3	Communication B	4
Electives	3	Physical Science Breadth	3
INTER-LS 210	1	Social Science Breadth	3
	<b>14</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
FRENCH 271	3	FRENCH 321	3
FRENCH/INTL BUS 313	3	FRENCH 348	3
Science Breadth	3	Science Breadth	3
Electives	6	Electives	6
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
FRENCH 322	3	FRENCH 465	3
FRENCH 590	3	FRENCH 347	3
Electives	9	Electives	9
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:



- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## ADVISING RESOURCES

- For information on language proficiency, language placement, retrocredits and/or declaring the French Major, please see the French and Italian department website (<https://frit.wisc.edu/undergraduate-programs-in-french/>).
- For advising on the French Major or Certificate, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).
- For language and international directions advising, please contact the International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising/>).

## PEOPLE

### FRENCH FACULTY

Professors Bousquet, Miernowski, Vatan, Vïla

Associate Professors Armstrong, El Nossery, Willis Allen

Faculty Associates Deitz, Theobald

Senior Lecturer Miernowska

**FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))**

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org/>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW-Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org) (<http://guide.wisc.edu/undergraduate/letters-science/french-italian/uwfrenchhouse.org>).

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

## CLUBS AND OTHER ACTIVITIES

### French

The French Club (<https://win.wisc.edu/organization/frenchclub/>) is a registered student organization run by students involved in the French program and open to any and all UW community members who have an interest in French language and culture. Club members are encouraged to organize and participate in cultural events on campus and in the community. Undergraduates are welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu/>) and the French House website (<http://uwfrenchhouse.org/>) for event details).

## FRENCH, B.S.

The French program at UW-Madison offers students opportunities for cultural and literary learning about the French-speaking world through dynamic, in-class experiences and extracurricular components such as the French House, an immersion residence hall and cultural center, and with French and Francophone cultural events in and around Madison.

Students intending to major in French or complete the certificate enter the program at the appropriate level depending on their language proficiency. If you have previous experience in the French language, please refer to Testing and Evaluation Services (<https://exams.wisc.edu/placement/uw-madison-students.php>) to register for the placement test.

The majority of UW-Madison French majors or certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW-Madison-sponsored program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

For information on teacher training in French, see the School of Education (p. 1543) section in the *Guide*.

For courses in French literature in translation, see the Literature in Translation (<http://guide.wisc.edu/courses/littrans/>) course listing.

## HOW TO GET IN

Students can declare a French major at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the French certificate may not be declared in the French major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR INTRODUCTORY (PREREQUISITE) COURSE

Code	Title	Credits
FRENCH 228	Intermediate Language and Culture	3-4

### 24 TOTAL CREDITS:

To complete the French major, **24 credits** are needed beyond the introductory (prerequisite) course. Please note that only one course taught in English may count towards the French Major.<sup>4</sup>

## REQUIRED COURSES IN FRENCH/FRANCOPHONE LITERATURE AND CULTURE COMPLETE THE CORE COURSES:

Code	Title	Credits
FRENCH 271	Literature, Comics, and Film in French	3-4
FRENCH 321	Medieval and Early Modern French Literature <sup>5</sup>	3
FRENCH 322	Modern French and Francophone Literature <sup>5</sup>	3
FRENCH 347 or FRENCH 451	Medieval and Early Modern Culture <sup>5</sup> or Medieval, Renaissance, and Early Modern Studies	3

## FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE NUMBERED 400 OR ABOVE

### Complete One course from:

Code	Title	Credits
FRENCH 420	Topics in French: Study Abroad	1-6
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 464	Literature and Medicine in French-Speaking Cultures	3
FRENCH 465	French/Francophone Film	3

FRENCH 467	Aspects of Contemporary French Literature	3	FRENCH 348	Modernity Studies	3
FRENCH 472	French/Francophone Literature and Women	3	FRENCH 350	Applied French Language Studies	1-3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3	FRENCH 361	Study Abroad: French/Francophone Literature	2-3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3	FRENCH 362	Study Abroad: French/Francophone Civilization	2-3
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3	FRENCH 420	Topics in French: Study Abroad	1-6
FRENCH 626	Critical Approaches to French Literature	3	FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 630	The Age of Reason	3	FRENCH 431	Readings in Early Modern Literature	3
FRENCH 631	17th-Century French Literature	3	FRENCH/AFRICAN 440	African/Francophone Film <sup>4</sup>	3
FRENCH 633	The 17th-Century Novel	3	FRENCH 449	Francophone Modernity Studies	3
FRENCH 636	The French Novel: 1850-1900	3	FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 637	19th-Century French Literature	3	FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 639	17th-Century Literature	3	FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 645	16th-Century French Literature	3	FRENCH 464	Literature and Medicine in French-Speaking Cultures	3
FRENCH 647	The 20th-Century French Novel	3	FRENCH 465	French/Francophone Film	3
FRENCH 653	French and Francophone Cinema	3	FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 665	Introduction to Francophone Studies	3	FRENCH 472	French/Francophone Literature and Women	3
FRENCH 672	Topics in Literature and Culture	3	FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 681	Senior Honors Thesis	3	FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 682	Senior Honors Thesis	3	FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3
FRENCH 691	Thesis	2	FRENCH 626	Critical Approaches to French Literature	3
FRENCH 692	Thesis	2	FRENCH 630	The Age of Reason	3

## ADDITIONAL FRENCH/FRANCOPHONE LITERATURE AND/OR CULTURE COURSE

### Complete One course from:

Code	Title	Credits
FRENCH 210	Sexuality and Gender in 20th-Century French Literature <sup>4</sup>	3
FRENCH 211	French Literary and Interdisciplinary Studies <sup>4</sup>	3-4
FRENCH/AFRICAN 216	Modern and Contemporary Francophone Topics <sup>4</sup>	3
FRENCH 248	Ethnic Studies in the French/Francophone World(s) <sup>4</sup>	3
FRENCH 285	Rebellious Women <sup>4</sup>	3-4
FRENCH 288	Doctors without Borders (Médecins Sans Frontières) <sup>4</sup>	3
FRENCH 298	Directed Study	1-3
FRENCH 299	Directed Study	1-3
FRENCH/INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH 325	Visual Culture in French/Francophone Studies	3
FRENCH 347	Medieval and Early Modern Culture <sup>5</sup>	3
FRENCH 348	Modernity Studies	3
FRENCH 350	Applied French Language Studies	1-3
FRENCH 361	Study Abroad: French/Francophone Literature	2-3
FRENCH 362	Study Abroad: French/Francophone Civilization	2-3
FRENCH 420	Topics in French: Study Abroad	1-6
FRENCH 430	Readings in Medieval and Renaissance Literature	3
FRENCH 431	Readings in Early Modern Literature	3
FRENCH/AFRICAN 440	African/Francophone Film <sup>4</sup>	3
FRENCH 449	Francophone Modernity Studies	3
FRENCH 451	Medieval, Renaissance, and Early Modern Studies	3
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3
FRENCH 464	Literature and Medicine in French-Speaking Cultures	3
FRENCH 465	French/Francophone Film	3
FRENCH 467	Aspects of Contemporary French Literature	3
FRENCH 472	French/Francophone Literature and Women	3
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives	3
FRENCH 626	Critical Approaches to French Literature	3
FRENCH 630	The Age of Reason	3
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FRENCH 636	The French Novel: 1850-1900	3
FRENCH 637	19th-Century French Literature	3
FRENCH 639	17th-Century Literature	3
FRENCH 645	16th-Century French Literature	3
FRENCH 647	The 20th-Century French Novel	3
FRENCH 653	French and Francophone Cinema	3
FRENCH 665	Introduction to Francophone Studies	3
FRENCH 672	Topics in Literature and Culture	3
FRENCH 681	Senior Honors Thesis	3
FRENCH 682	Senior Honors Thesis	3
FRENCH 691	Thesis	2
FRENCH 692	Thesis	2
LITTRANS 209	Masterpieces of French Literature and Culture <sup>4</sup>	3-4

LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces <sup>4</sup>	3
LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century <sup>4</sup>	3
LITTRANS 302	What is Life? Biological Life in Literature and Culture <sup>4</sup>	3-4
LITTRANS 303	Topics in French Literature and Culture <sup>4</sup>	3-4

## LANGUAGE COURSE NUMBERED 300 OR ABOVE

### Complete One course from:

Code	Title	Credits
FRENCH 311	Advanced Composition and Speaking	3
FRENCH 312	Advanced Writing Workshop	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3
FRENCH 316	Study Abroad: Advanced French Language	2-6
FRENCH 350	Applied French Language Studies	1-3
FRENCH 590	Introduction to Phonetics	3

## ADDITIONAL FRENCH COURSEWORK TO REACH 24 CREDITS

### As needed:

Many French majors will need additional elective credit to reach the 24-credit minimum requirement. Depending on the courses taken from the lists above to meet the other French major requirements, some students may need one or more additional elective course(s) to reach this 24-credit minimum. Courses in FRENCH numbered 300-699 are eligible electives.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all FRENCH and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>1</sup>
- 15 credits in FRENCH taken on campus at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with a French undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all FRENCH courses and all courses counting in the major
- Complete at least 8 credits, taken for Honors, beyond FRENCH 271<sup>2</sup>

- Complete a two-semester Senior Honors Thesis in FRENCH 681 and FRENCH 682, for a total of 6 credits<sup>3</sup>

## FOOTNOTES

1

FRENCH 300 and higher are considered upper-level in the major.

2

Study abroad in France or in another French-speaking country is highly recommended, and the 8 credits taken for Honors can be fulfilled through French courses taken abroad at the appropriate level.

3

In certain circumstances (particularly when the student is an Honors candidate in two or more departments), two courses in literature or cultural studies numbered 500-599 or 600-699 may be substituted for the Senior Honors Thesis.

4

Only one course taught in English may count toward the French Major.

5

FRENCH 321 Medieval and Early Modern French Literature, FRENCH 322 Modern French and Francophone Literature and FRENCH 347 Medieval and Early Modern Culture are rarely given as course equivalents for courses taken abroad. Students majoring in French who do not take these courses prior to studying abroad will need to take them upon their return.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate that they understand and can analyze literary and non-literary texts in French representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written French to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written French to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).

- Recognize and explain cultural artifacts, practices, and perspectives of the French-speaking world including how these cultural elements relate to literary and non-literary texts in French (cultural knowledge).
- Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the French language (linguistic knowledge).
- Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the French-speaking world with those found in their own culture (cross-cultural awareness).
- Engage in a sustained fashion with the French language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the French language and culture).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
FRENCH 203		4 FRENCH 204	4
Communication A	3	FRENCH 248 (meets Ethnic Studies requirement)	3
Social Science Breadth	3	Social Science Breadth	4
Quantitative Reasoning A	3	Biological Science Breadth	3
Electives	3		
		<b>16</b>	<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
FRENCH 228		3 FRENCH 211	3
Quantitative Reasoning B	4	FRENCH 311	3
Social Science Breadth	3	Communication B	4
Electives	3	Physical Science Breadth	3
INTER-LS 210	1	Social Science Breadth	3
		<b>14</b>	<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
FRENCH 271		3 FRENCH 321	3
FRENCH/INTL BUS 313	3	FRENCH 348	3
Science Breadth	3	Science Breadth	3
Electives	6	Electives	6
		<b>15</b>	<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
FRENCH 322		3 FRENCH 465	3
FRENCH 590	3	FRENCH 347	3
Electives	9	Electives	9
		<b>15</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### ADVISING RESOURCES

- For information on language proficiency, language placement, retrocredits and/or declaring the French Major, please see the French and Italian department website (<https://frit.wisc.edu/undergraduate-programs-in-french/>).

- For advising on the French Major or Certificate, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).
- For language and international directions advising, please contact the International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising/>).

## PEOPLE

### FRENCH FACULTY

Professors Bousquet, Miernowski, Vatan, Vila

Associate Professors Armstrong, El Nossery, Willis Allen

Faculty Associates Deitz, Theobald

Senior Lecturer Miernowska

**FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))**

## RESOURCES AND SCHOLARSHIPS

### FRENCH HOUSE

La Maison Française (<http://uwfrenchhouse.org/>), a francophone (French-speaking) residence hall and cultural center, is managed by the Department of French and Italian. Residence is open to UW–Madison students with the equivalent of a fourth-semester level of French. At least two native French graduate students reside in the house, aiding in conversation and facilitating the use of French. Most residents are Americans: prospective teachers of French, French majors, and students in other disciplines who want to speak French on a daily basis. Applications should be made well in advance. More information is available at [uwfrenchhouse.org](http://uwfrenchhouse.org) (<http://guide.wisc.edu/undergraduate/letters-science/french-italian/uwfrenchhouse.org>).

The French House is open to the public for Wednesday dinner and Friday lunch during the academic year.

## CLUBS AND OTHER ACTIVITIES

### French

Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu/>) and the French House website (<http://uwfrenchhouse.org/>) for event details). Please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>) for more information about French activities.

## FRENCH, CERTIFICATE

The undergraduate certificate in French offers students the opportunity to develop their proficiency in French language and their knowledge of literature and culture in the French-speaking world, thereby complementing their major(s) in other subjects across the university. It also strengthens the applications of students who intend to pursue careers or graduate study in areas where French is useful. The certificate is open to all undergraduate students.

## HOW TO GET IN

Students can declare a French certificate at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the French major are not eligible to declare the French certificate. Students who do wish to declare this certificate must first cancel their declaration in the major.

## REQUIREMENTS

The undergraduate certificate in French requires 15 credits of French coursework (or 5 courses) including FRENCH 228, FRENCH 271, and courses at the 311 level and above. For courses taken on campus at the FRENCH 311 level or higher, prerequisites must be met or permission given by the department. Courses for the certificate cannot be taken on a credit/no credit or pass/fail basis. Retroactive credits may not be applied toward the certificate.

## CERTIFICATE REQUIREMENTS

Code	Title	Credits
<b>Core Courses</b>		<b>6</b>
FRENCH 228	Intermediate Language and Culture	
FRENCH 271	Literature, Comics, and Film in French	
<b>Advanced Language Course</b>		<b>3</b>
FRENCH 311	Advanced Composition and Speaking	
FRENCH 312	Advanced Writing Workshop	
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	
FRENCH 316	Study Abroad: Advanced French Language	
FRENCH 350	Applied French Language Studies	
FRENCH 590	Introduction to Phonetics	
<b>Electives:</b>		<b>6</b>
FRENCH 311	Advanced Composition and Speaking	
FRENCH 312	Advanced Writing Workshop	
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	
FRENCH 321	Medieval and Early Modern French Literature	
FRENCH 322	Modern French and Francophone Literature	
FRENCH 325	Visual Culture in French/ Francophone Studies	
FRENCH 347	Medieval and Early Modern Culture	

FRENCH 348	Modernity Studies
FRENCH 350	Applied French Language Studies
FRENCH 420	Topics in French: Study Abroad
FRENCH 430	Readings in Medieval and Renaissance Literature
FRENCH 431	Readings in Early Modern Literature
FRENCH 449	Francophone Modernity Studies
FRENCH 451	Medieval, Renaissance, and Early Modern Studies
FRENCH 461	French/Francophone Literary Studies Across the Centuries
FRENCH 462	French/Francophone Cultural Studies Across the Centuries
FRENCH 464	Literature and Medicine in French-Speaking Cultures
FRENCH 465	French/Francophone Film
FRENCH 467	Aspects of Contemporary French Literature
FRENCH 472	French/Francophone Literature and Women
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives
FRENCH 590	Introduction to Phonetics

**Total Credits****15**

## RESIDENCE AND QUALITY OF WORK

- At least 9 credits of the certificate must be taken on campus. At least 12 credits of the certificate must be taken in residence. (UW–Madison approved study abroad programs are considered in residence but are not on campus.)
- Students must maintain a 2.000 cumulative GPA in all courses required for the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Interpretive communication) Demonstrate that they understand and can analyze of literary and non-literary texts in French representing a variety of topics, time periods, and geographical regions.
2. (Presentational communication) Express themselves effectively in spoken and written French to inform, persuade, and narrate for different audiences of listeners, viewers, or readers.

3. (Interpersonal communication) Express themselves effectively in spoken and written French to share information, reactions, and opinions related to a variety of topics and texts.
4. (Cultural knowledge) Recognize and explain cultural artifacts, practices, and perspectives of the French-speaking world.
5. (Linguistic knowledge) Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the French language.
6. (Cross-cultural awareness) Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the French-speaking world with their own.
7. (Engagement with the French language and culture) Engage in a sustained fashion with the French language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad.

## ADVISING AND CAREERS

- For information on language proficiency, language placement, retrocredits, and/or declaring the French Certificate, please see the French and Italian department website (<https://frit.wisc.edu/undergraduate-programs-in-french/>).
- For advising on the French Major or Certificate, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).
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## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

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## PEOPLE

### FRENCH FACULTY

Professors Bousquet, Miernowski, Vatan, Vila

Associate Professors Armstrong, El Nossery, Willis Allen

Faculty Associates Deitz, Theobald

Senior Lecturer Miernowska

**FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRI.TWISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))**

## ITALIAN, B.A.

The Italian program at UW-Madison offers students opportunities for growth in the language and for increased cultural fluency through dynamic, in-class learning experiences and multiple extracurricular components such as the Italian Club (<https://www.facebook.com/groups/28276254670/>), Circolo della bella lingua (a regular language meet-up geared toward allowing students of all levels to practice their Italian speaking in an informal setting) and Cineteca Italiana (<https://www.facebook.com/UWCineteca/?fref=ts>), which organizes weekly screenings of Italian films.

Students intending to major in Italian or complete the certificate enter the program at the appropriate level depending on their language proficiency. If you have previous experience in the Italian language, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>) for more information about the Informal Italian placement test.

The majority of UW-Madison Italian majors and certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW-Madison study abroad program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

For information on teacher training in Italian, see the School of Education (p. 1543) section in this *Guide*.

For courses in Italian literature in translation, see the Literature in Translation (<http://guide.wisc.edu/courses/littrans/>) course listing.

## HOW TO GET IN

Students can declare an Italian major at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult

the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the Certificate in Italian may not be declared in the Italian major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

- |                  |  |
|------------------|--|
| Mathematics      | Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.   |
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |



L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW-Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Italian majors must complete 24 credits beyond ITALIAN 204. Please note that Literature in Translation (LITTRANS) courses cannot be counted toward the major.

The 24 credits required for the Italian major will be distributed as follows:

Code	Title	Credits
<b>Required Core Courses (complete all):</b>		
ITALIAN 230	Modern Italian Culture	3
ITALIAN 311	Advanced Italian Language	3
ITALIAN 312	Writing Workshop	3
ITALIAN 321	Studies in Italian Literature and Culture I	3
ITALIAN 322	Studies in Italian Literature and Culture II	3
<b>Major electives:</b>		<b>9</b>
ITALIAN 340	Structures of Italian	
ITALIAN/ILS 350	Rome: Lust for Glory	
ITALIAN/ILS/LITTRANS/POLI SCI 365	Machiavelli and His World	
ITALIAN 420	Topics in Italian: Study Abroad	
ITALIAN/FRENCH/PORTUG/SPANISH 429	Introduction to the Romance Languages	

ITALIAN 450	Special Topics in Italian Literature
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language
ITALIAN/COM ARTS 460	Italian Film
ITALIAN 601	The 19th Century
ITALIAN 621 & ITALIAN 622	The 18th Century and The 18th Century
ITALIAN 623	Italian Theatre
ITALIAN 631 & ITALIAN 632	Features in Italian Literature and Features in Italian Literature
ITALIAN 636	The Italian Novel
ITALIAN 651	The Renaissance
ITALIAN/MEDIEVAL 659	Dante's Divina Commedia
ITALIAN/MEDIEVAL 671	The 13th Century
ITALIAN 681	Senior Honors Thesis
ITALIAN 682	Senior Honors Thesis
ITALIAN 691	Senior Thesis
ITALIAN 692	Senior Thesis
ITALIAN 698	Directed Study
ITALIAN 699	Directed Study

**Total Credits** **24**

## RESIDENCY AND QUALITY OF WORK

- 2.000 GPA in all ITALIAN and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence: (ITALIAN 300 and higher are considered upper-level in the major)
- 15 credits in ITALIAN taken on campus at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Italian undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ITALIAN courses and courses counting toward the major
- Complete at least 15 credits, taken for Honors, beyond ITALIAN 204, earning individual grades of B or better in each course. Of these 15 credits, 6 must come from completing a two-semester Senior Honors Thesis in ITALIAN 681 and ITALIAN 682.<sup>1</sup>

1

Students may be allowed to substitute two semesters of literature course work at the 600 level for the Senior Honors Thesis. See the undergraduate advisor in Italian.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate that they understand and can analyze literary and non-literary texts in Italian representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written Italian to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written Italian to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the Italian-speaking world including how these cultural elements relate to literary and non-literary texts in Italian (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the Italian language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the Italian-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the Italian language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the Italian language and culture).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer

experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
ITALIAN 101	4	ITALIAN 102	4
Communication A	3	Ethnic Studies	3
Quantitative Reasoning A	3	Biological Science Breadth	3
Social Science Breadth	4	Social Science Breadth Electives	3
	<b>14</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
ITALIAN 203	4	ITALIAN 204	4
Quantitative Reasoning B	4	Communication B	4
Social Science Breadth	3	Social Science Breadth	3
INTER-LS 210	1	Physical Science Breadth	3
Electives	4		
	<b>16</b>		<b>14</b>

#### Junior

Fall	Credits	Spring	Credits
ITALIAN 230	3	ITALIAN 312	3
ITALIAN 311	3	ITALIAN 321	3
Science Breadth	3	Science Breadth	3
Electives	6	Electives	6
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
ITALIAN 322	3	ITALIAN/COM ARTS 460	3
ITALIAN 340	3	ITALIAN 450	3
Electives	9	Electives	9
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

Information about academic advising for the major can be found at undergraduate advising for French & Italian (<https://frit.wisc.edu/academic-advising/>).

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## ADVISING RESOURCES

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- For language and international directions advising, please contact the International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising/>).

## PEOPLE

### ITALIAN FACULTY

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic

Faculty Associate Eadie

## FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))

### RESOURCES AND SCHOLARSHIPS

## CLUBS AND OTHER ACTIVITIES

### Italian

The Italian Club (<https://www.facebook.com/groups/28276254670/>) is a registered student organization run by students involved in the Italian program and open to any and all UW community members who have an interest in Italian culture. Club members are encouraged to organize and participate in cultural events on campus and in the community, including our annual *Cena italiana* in the Spring. Members of the Italian Club and Italian Ambassadors also organize the *Circolo della bella lingua*, a regular language meet-up geared toward allowing students of all levels to practice their Italian speaking in an informal setting. Finally, the *Cineteca Italiana* (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu/>) for event details).

## ITALIAN, B.S.

The Italian program at UW-Madison offers students opportunities for growth in the language and for increased cultural fluency through dynamic, in-class learning experiences and multiple extracurricular components such as the Italian Club (<https://www.facebook.com/groups/28276254670/>), *Circolo della bella lingua* (a regular language meet-up geared toward allowing students of all levels to practice their Italian speaking in an informal setting) and *Cineteca Italiana* (<https://www.facebook.com/UWCineteca/?fref=ts>), which organizes weekly screenings of Italian films.

Students intending to major in Italian or complete the certificate enter the program at the appropriate level depending on their language proficiency. If you have previous experience in the Italian language, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>) for more information about the Informal Italian placement test.

The majority of UW-Madison Italian majors and certificate students complete their requirements through a combination of courses taken on campus and abroad with a UW-Madison study abroad program.

Students have the option to take a class for Honors at almost all levels. For more information, please see the department website and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

For information on teacher training in Italian, see the School of Education (p. 1543) section in this *Guide*.

For courses in Italian literature in translation, see Literature in Translation (<http://guide.wisc.edu/courses/littrans/>) course listing.

## HOW TO GET IN

Students can declare an Italian major at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the Certificate in Italian may not be declared in the Italian major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

<b>Foreign Language</b>	Complete the third unit of a foreign language.
<b>L&amp;S Breadth</b>	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
<b>Depth of Intermediate/Advanced Coursework</b>	Complete at least 60 credits at the Intermediate or Advanced level.
<b>Major</b>	Declare and complete at least one major.
<b>Total Credits</b>	Complete at least 120 credits.
<b>UW–Madison Experience</b>	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Italian majors must complete 24 credits beyond ITALIAN 204. Please note that Literature in Translation (LITTRANS) courses cannot be counted toward the major.

The 24 credits required for the Italian major will be distributed as follows:

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Required Core Courses (complete all):</b>		
ITALIAN 230	Modern Italian Culture	3
ITALIAN 311	Advanced Italian Language	3
ITALIAN 312	Writing Workshop	3
ITALIAN 321	Studies in Italian Literature and Culture I	3
ITALIAN 322	Studies in Italian Literature and Culture II	3
<b>Major electives:</b>		<b>9</b>
ITALIAN 340	Structures of Italian	
ITALIAN/ILS 350	Rome: Lust for Glory	
ITALIAN/ILS/ LITTRANS/ POLI SCI 365	Machiavelli and His World	
ITALIAN 420	Topics in Italian: Study Abroad	
ITALIAN/ FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	

ITALIAN 450	Special Topics in Italian Literature
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language
ITALIAN/ COM ARTS 460	Italian Film
ITALIAN 601	The 19th Century
ITALIAN 621 & ITALIAN 622	The 18th Century and The 18th Century
ITALIAN 623	Italian Theatre
ITALIAN 631 & ITALIAN 632	Features in Italian Literature and Features in Italian Literature
ITALIAN 636	The Italian Novel
ITALIAN 651	The Renaissance
ITALIAN/ MEDIEVAL 659	Dante's Divina Commedia
ITALIAN/ MEDIEVAL 671	The 13th Century
ITALIAN 681	Senior Honors Thesis
ITALIAN 682	Senior Honors Thesis
ITALIAN 691	Senior Thesis
ITALIAN 692	Senior Thesis
ITALIAN 698	Directed Study
ITALIAN 699	Directed Study

**Total Credits** **24**

## RESIDENCY AND QUALITY OF WORK

- 2.000 GPA in all ITALIAN and major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence: (ITALIAN 300 and higher are considered upper-level in the major)
- 15 credits in ITALIAN taken on campus at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Italian undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all ITALIAN courses and courses counting toward the major
- Complete at least 15 credits, taken for Honors, beyond ITALIAN 204, earning individual grades of B or better in each course. Of these 15 credits, 6 must come from completing a two-semester Senior Honors Thesis in ITALIAN 681 and ITALIAN 682.<sup>1</sup>

1

Students may be allowed to substitute two semesters of literature course work at the 600 level for the Senior Honors Thesis. See the undergraduate advisor in Italian.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate that they understand and can analyze literary and non-literary texts in Italian representing a broad spectrum of topics, time periods, and geographical regions (interpretive communication).
2. Express themselves effectively in spoken and written Italian to inform, persuade, and narrate for different audiences of listeners, viewers, or readers (presentational communication).
3. Express themselves effectively in spoken and written Italian to share information, reactions, and opinions related to a broad spectrum of topics and texts (interpersonal communication).
4. Recognize and explain cultural artifacts, practices, and perspectives of the Italian-speaking world including how these cultural elements relate to literary and non-literary texts in Italian (cultural knowledge).
5. Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the Italian language (linguistic knowledge).
6. Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the Italian-speaking world with those found in their own culture (cross-cultural awareness).
7. Engage in a sustained fashion with the Italian language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad (engagement with the Italian language and culture).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer

experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### Freshman

Fall	Credits	Spring	Credits
ITALIAN 101		4 ITALIAN 102	4
Communication A	3	Ethnic Studies	3
Quantitative Reasoning A	3	Biological Science Breadth	3
Social Science Breadth	4	Social Science Breadth	3
		Electives	3
<b>14</b>		<b>16</b>	

### Sophomore

Fall	Credits	Spring	Credits
ITALIAN 203		4 ITALIAN 204	4
Quantitative Reasoning B	4	Communication B	4
Social Science Breadth	3	Social Science Breadth	3
INTER-LS 210	1	Physical Science Breadth	3
Electives	4		
<b>16</b>		<b>14</b>	

### Junior

Fall	Credits	Spring	Credits
ITALIAN 230		3 ITALIAN 312	3
ITALIAN 311	3	ITALIAN 321	3
Science Breadth	3	Science Breadth	3
Electives	6	Electives	6
<b>15</b>		<b>15</b>	

### Senior

Fall	Credits	Spring	Credits
ITALIAN 322		3 ITALIAN/ COM ARTS 460	3
ITALIAN 340	3	ITALIAN 450	3
Electives	9	Electives	9
<b>15</b>		<b>15</b>	

**Total Credits 120**

## ADVISING AND CAREERS

Information about academic advising for the major can be found at undergraduate advising for French & Italian (<https://frit.wisc.edu/academic-advising/>).

The Department of French and Italian encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## ADVISING RESOURCES

- For information on language proficiency, language placement, retrocredits and/or declaring the Italian Major, please see the French and Italian department website (<https://frit.wisc.edu/undergraduate-programs-in-italian/>).
- For advising on the Italian Major or Certificate, please contact the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).
- For language and international directions advising, please contact the International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising/>).

## PEOPLE

### ITALIAN FACULTY

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic

Faculty Associate Eadie

FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))

## RESOURCES AND SCHOLARSHIPS

## CLUBS AND OTHER ACTIVITIES

### Italian

The Italian Club (<https://www.facebook.com/groups/28276254670/>) is a registered student organization run by students involved in the Italian program and open to any and all UW community members who have an interest in Italian culture. Club members are encouraged to organize and participate in cultural events on campus and in the community, including our annual *Cena italiana* in the Spring. Members of the Italian Club and Italian Ambassadors also organize the *Circolo della bella lingua*, a regular language meet-up geared toward allowing students of all levels to practice their Italian speaking in an informal setting. Finally, the *Cineteca Italiana* (<https://www.facebook.com/UWCineteca/?fref=ts>) organizes weekly screenings of Italian films. Undergraduates are also welcome at scholarly talks and department events on an array of subjects (see department website (<https://www.frit.wisc.edu/>) for event details).

## ITALIAN, CERTIFICATE

The undergraduate certificate in Italian offers students the opportunity to develop their proficiency in Italian language and their knowledge of literature and culture in the Italian-speaking world. Advanced courses (300 and 400 level) will allow students to build on the foundation developed in 200-level courses by choosing from a range of courses in Italian literature, linguistics, cinema, culture, and professional communication. The certificate also strengthens the applications of students who intend to pursue careers or graduate study in areas where Italian is useful. The undergraduate certificate in Italian is open to all undergraduate students.

## HOW TO GET IN

Students can declare an Italian certificate at any time. For more information, please see the department website (<https://frit.wisc.edu/>) and/or consult the undergraduate advisor (<https://frit.wisc.edu/faculty-french-and-italian/>).

Students declared in the Italian major are not eligible to declare the Certificate in Italian.

## REQUIREMENTS

### 5 COURSES AND 15 CREDITS, TO INCLUDE: <sup>1</sup>

Code	Title	Credits
<b>Foundation (two courses):</b>		
ITALIAN 311	Advanced Italian Language	6
ITALIAN 312	Writing Workshop	
ITALIAN 321	Studies in Italian Literature and Culture I	
ITALIAN 322	Studies in Italian Literature and Culture II	

<b>Electives</b>		<b>9</b>
ITALIAN 230	Modern Italian Culture	
ITALIAN 311	Advanced Italian Language	
ITALIAN 312	Writing Workshop	
ITALIAN 321	Studies in Italian Literature and Culture I	
ITALIAN 322	Studies in Italian Literature and Culture II	
ITALIAN 340	Structures of Italian	
ITALIAN/ILS 350	Rome: Lust for Glory (Taught in English)	
ITALIAN/ILS/LITTRANS/ POLI SCI 365	Machiavelli and His World (Taught in English)	
ITALIAN 420	Topics in Italian: Study Abroad	
ITALIAN/ FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages (Taught in English)	
ITALIAN 450	Special Topics in Italian Literature	
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	
ITALIAN/ COM ARTS 460	Italian Film (Taught in English)	
LITTRANS 213	Love and Sex in Italian Comedy <sup>2</sup>	
or LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	
or LITTRANS 25	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	
or LITTRANS/ MEDIEVAL 255	Black Death and Medieval Life Through Boccaccio's Decameron	
or LITTRANS 26	Italy and the Invention of America: from Columbus to World War II	
or LITTRANS 41	In Translation: Special Topics in Italian Literature	

**Total Credits** **15**

## RESIDENCE AND QUALITY OF WORK

9 credits taken on the UW-Madison campus

2.000 GPA on all certificate courses

1

Courses taken pass/fail are not eligible for the certificate.

2

Only one LITTRANS course may count in the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Interpretive communication) Demonstrate that they understand and can analyze of literary and nonliterary texts in Italian representing a variety of topics, time periods, and geographical regions.
2. (Presentational communication) Express themselves effectively in spoken and written Italian to inform, persuade, and narrate for different audiences of listeners, viewers, or readers.
3. (Interpersonal communication) Express themselves effectively in spoken and written Italian to share information, reactions, and opinions related to a variety of topics and texts.
4. (Cultural knowledge) Recognize and explain cultural artifacts, practices, and perspectives of the Italian-speaking world.
5. (Linguistic knowledge) Demonstrate a good degree of understanding of lexical, grammatical, syntactic, and stylistic features of the Italian language.
6. (Cross-cultural awareness) Demonstrate awareness of difference and diversity by comparing and contrasting culturally situated beliefs, behaviors, and norms of the Italian-speaking world with their own.
7. (Engagement with the Italian language and culture) Engage in a sustained fashion with the Italian language, its users, and cultural artifacts in and beyond the classroom, e.g., in their own community, virtual communities, and study abroad.

## ADVISING AND CAREERS

- For information on language proficiency, language placement, retrocredits, and/or declaring the Italian Certificate, please see the French and Italian department website (<https://frit.wisc.edu/undergraduate-programs-in-french/>).
- For advising on the Italian Major or Certificate, please contact the undergraduate advisor.
- For language and international directions advising, please contact the International Directions Advisor in the Language Institute (<http://languages.wisc.edu/languageadvising/>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### ITALIAN FACULTY

Professors Buccini, Livorni, Rumble

Associate Professors Menechella, Phillips-Court, Todorovic

Faculty Associate Eadie

**FRENCH & ITALIAN PEOPLE PAGE ([HTTPS://FRIT.WISC.EDU/FACULTY-FRENCH-AND-ITALIAN/](https://frit.wisc.edu/faculty-french-and-italian/))**

## GENDER AND WOMEN'S STUDIES

The Gender and Women's Studies (GWS) curriculum provides a platform for students to study how equity and social justice are connected to gender, sexuality, and identity. Gender and Women's Studies students explore the field through traditional disciplines, such as literature, history, anthropology, sociology, public health, education, law, biology, psychology, political science, and the visual arts. Students in our courses (<https://public.enroll.wisc.edu/search/?term=0000&subject=963>) develop strong analytical and communication skills through classroom discussion, writing, and independent projects. Undergraduates in our programs can pursue research skills through thesis writing, as well as professional development opportunities through career workshops with alumni and in our internship program (<https://gws.wisc.edu/gws660/>). As a result, graduates from our programs apply a critical lens in fields like health and public policy, social justice and advocacy, reproductive justice, non-profit administration, clinical medicine, software development, communications, and media production.

At the undergraduate level, the Department of Gender and Women's Studies offers a variety of programs. Students can declare the Gender and Women's Studies major (p. 753) and/or certificates, or minors, in Gender and Women's Studies or LGBTQ+ Studies. The Gender and Women's Studies certificate (p. 768) and the LGBTQ+ Studies certificate (p. 771) are both 5-course, 15-credit programs.

For more information about the department, including course listings, undergraduate advising, sample syllabi, and faculty bios, students can visit the GWS website (<http://www.gws.wisc.edu>).



## DEGREES/MAJORS/CERTIFICATES

- Gender and Women's Studies, B.A. (p. 753)
- Gender and Women's Studies, B.S. (p. 760)
- Gender and Women's Studies, Certificate (p. 768)
- LGBTQ+ Studies, Certificate (p. 771)

## PEOPLE

### FACULTY

Professors Jill Casid (<https://gws.wisc.edu/staff/casid-jill-h/>), Finn Enke (<https://gws.wisc.edu/staff/enke-finn/>), Christine Garlough (<https://gws.wisc.edu/staff/garlough-christine/>), (<https://gws.wisc.edu/staff/hyde-janet-shibley/>) Judith Houck (<https://gws.wisc.edu/staff/houck-judy/>), Pernille Ipsen (<https://gws.wisc.edu/staff/ipsen-ernille/>), Maria Lepowsky (<https://gws.wisc.edu/staff/lepowsky-maria/>), Ellen Samuels (<https://gws.wisc.edu/staff/samuels-ellen/>)

Associate Professors Anna Campbell (<https://gws.wisc.edu/staff/campbell-anna/>) Keisha Lindsay (<https://gws.wisc.edu/staff/lindsay-keisha/>), Sami Schalk (<https://gws.wisc.edu/staff/schalk-sami/>), Kate Walsh (<https://gws.wisc.edu/staff/walsh-kate/>)

Assistant Professors Sara Chadwick (<https://gws.wisc.edu/staff/chadwick-sara/>), Ruth Goldstein (<https://gws.wisc.edu/staff/goldstein-ruth/>), LiLi Johnson (<https://gws.wisc.edu/staff/johnson-lili/>), James McMaster (<https://gws.wisc.edu/staff/mcmaster-james/>), Annie Menzel (<https://gws.wisc.edu/staff/menzel-annie/>), Benjamin Mier-Cruz (<https://gws.wisc.edu/staff/mier-cruz-benjamin/>), Aurora Santiago-Ortiz (<https://gws.wisc.edu/staff/santiago-ortiz-aurora/>), Leigh Senderowicz (<https://gws.wisc.edu/staff/senderowicz-leigh/>), Marwa Shalaby (<https://gws.wisc.edu/staff/shalaby-marwa/>), Jess Waggoner (<https://gws.wisc.edu/staff/waggoner-jess/>), Kelly Ward (<https://gws.wisc.edu/staff/ward-kelly/>)

## GENDER AND WOMEN'S STUDIES, B.A.

The Gender and Women's Studies (GWS) curriculum provides a platform for students to study how equity and social justice are connected to gender, sexuality, and identity. Gender and Women's Studies students explore the field through traditional disciplines, such as literature, history, anthropology, sociology, public health, education, law, biology, psychology, political science, and the visual arts. Students in our courses (<https://public.enroll.wisc.edu/search/?term=0000&subject=963>) develop strong analytical and communication skills through classroom discussion, writing, and independent projects. Undergraduates in our programs can pursue research skills through thesis writing, as well as professional development opportunities through career workshops with alumni and in our internship program (<https://gws.wisc.edu/gws660/>). As a result, graduates from our programs apply a critical lens in fields like health and public policy, social justice and advocacy, reproductive justice, non-profit administration, clinical medicine, software development, communications, and media production.

At the undergraduate level, the Department of Gender and Women's Studies offers a variety of programs. Students can declare the Gender and

Women's Studies major (p. 753) and/or certificates, or minors, in Gender and Women's Studies or LGBTQ+ Studies. The Gender and Women's Studies certificate (p. 768) and the LGBTQ+ Studies certificate (p. 771) are both 5-course, 15-credit programs.

For more information about the department, including course listings, undergraduate advising, sample syllabi, and faculty bios, students can visit the GWS website (<http://www.gws.wisc.edu>).

## HOW TO GET IN

### DECLARATION

Intent to pursue the major can be declared by meeting with the undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) in Gender and Women's Studies and completing this online declaration form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_7TFo8TzXGAcPdOt/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_7TFo8TzXGAcPdOt/)). Declaring the major as early as possible allows students to best align major coursework with their interests.

Students declared in the Certificate in Gender and Women's Studies at the Undergraduate Level may not be declared in the Gender and Women's Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Majors in Gender and Women's Studies are required to take foundational work in GEN&WS courses reflecting each of four approaches to knowledge (humanities, social science, theory, and biological or health sciences), one course from three of four issue areas (sexuality, disability and embodiment, race/ethnicity, and global), and a capstone seminar or thesis.

All majors complete a minimum of 30 credits in GEN&WS including:<sup>1</sup>

### INTRODUCTORY GEN&WS

Code	Title	Credits
GEN&WS 101	Gender, Women, and Cultural Representation <sup>2</sup>	3
or GEN&WS 102	Gender, Women, and Society in Global Perspective	
GEN&WS 103	Gender, Women, Bodies, and Health	3
<b>Total Credits</b>		<b>6</b>

### APPROACHES<sup>3</sup>

1 course from each area:

#### Biology and Health

Explore health as both a physiological and a socio#cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.

Code	Title	Credits
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 524	Race, Gender, Health, and Medicine	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS 527	The Environment of the Womb: Epigenetics and Parent/Child Health	3
GEN&WS 530	Biology and Gender	3
GEN&WS/HIST SCI/ MED HIST 531	Women and Health in American History	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Gender and Biology	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEN&WS 538	Special Topics in LGBTQ+ Health	3
GEN&WS 539	Special Topics in Gender and Health	3

#### Humanities

Engage with humanities-based theories, content areas, and methodologies as they relate to gender and women's studies. These include, but are not limited to, critical text analysis, discourse analysis, historical approaches and archival work, media studies, ethnography, and digital humanities. (GEN&WS courses with H, L or Z designations)

Code	Title	Credits
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/ LITTRANS 205	Women in Russian Literature in Translation	3-4
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS 240	Feminist Approach to Research and Writing	3
GEN&WS/ ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ ENGL 250	Women in Literature	3
GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
GEN&WS/ RELIG ST 305	Women, Gender and Religion	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities	1-3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	3-4
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS 345	Narrating Queer Lives	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ ENGL 350	Special Topics in Gender & Literature	3
GEN&WS/ CLASSICS 351	Women and Gender in the Classical World	3-4
GEN&WS/ ENGL 359	Visionary and Speculative Fiction: Social Justice Approaches	3
GEN&WS/ CLASSICS 361	Sex and Power in Greece and Rome	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 373	Gender & the Cultural Politics of Illness	3
GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS/ENGL 401	Race, Sex, and Texts (How to do things with writing)	3
GEN&WS 410	Special Topics in Gender and Visual Culture	3
GEN&WS 412	Contemporary Queer Art and Visual Culture	3
GEN&WS/ THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	3
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS/ FOLKLORE 428	Gender and Expressive Culture	3
GEN&WS/ AMER IND/ ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminist Theory	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS/ ENGL 545	Feminist Theory and Women's Writing in English	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3

GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3
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### Social Science

Engage with social-science-based theories, content areas, and methodologies as they relate to gender and women's studies. These include, but are not limited to, scientific and clinical research, statistical analysis, mixed-methods approaches, and theories of social change. (GEN&WS courses with S or Z designations)

Code	Title	Credits
GEN&WS 104	Gender, Sexuality, and Global Health	3
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 240	Feminist Approach to Research and Writing	3
GEN&WS 280	Honors Seminar: Studies in Gender, Sex, and Sexuality	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	3-4
GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women and Gender in Modern Europe	3-4
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS/ LEGAL ST/SOC 425	Crime, Gender and Justice	3
GEN&WS 427	Global Feminisms	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4

GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS 449	Special Topics in Feminist Theory	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/ GEOG 504	Feminist Geography: Theoretical Approaches	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 524	Race, Gender, Health, and Medicine	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS 527	The Environment of the Womb: Epigenetics and Parent/Child Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEN&WS 538	Special Topics in LGBTQ+ Health	3
GEN&WS 539	Special Topics in Gender and Health	3
GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS/ ED POL 560	Gender and Education	3
GEN&WS/SOC 611	Gender, Science and Technology	3

### Feminist Theory

Explore feminist theoretical approaches, both national and international.

Code	Title	Credits
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality (Theory)	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS 449	Special Topics in Feminist Theory	3
GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS 547	Theorizing Intersectionality	3

### ISSUE AREAS <sup>3</sup>

#### Race/Ethnicity

Explore the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference. These courses may explore the construction and deployment of race/ethnicity anywhere in the world.

Code	Title	Credits
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS/ ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/ Ethnicity (Humanities)	3
GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS/ AMER IND/ ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS 524	Race, Gender, Health, and Medicine	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3

## Global

Explore aspects of gender in a comparative national frame. These classes may focus on the process of globalization or they may focus on gendered concerns in at least two national contexts.

Code	Title	Credits
GEN&WS 104	Gender, Sexuality, and Global Health	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 320	Special Topics in Gender, Women and Society (Global)	3
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 427	Global Feminisms	3
GEN&WS/ FOLKLORE 428	Gender and Expressive Culture	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS/ URB R PL 644	International Development and Gender	3

## Sexuality

Explore "sexuality" under the assumption that sexuality is not a natural or self-evident attribute or category, these courses demonstrate how sexuality has come to assume a variety of culturally specific but often contested meanings.

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 320	Special Topics in Gender, Women and Society (Sexuality)	3
GEN&WS 320	Special Topics in Gender, Women and Society (Queer)	3
GEN&WS 320	Special Topics in Gender, Women and Society (LGBTQ+)	3

GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS 345	Narrating Queer Lives	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ CLASSICS 351	Women and Gender in the Classical World	3-4
GEN&WS/ CLASSICS 361	Sex and Power in Greece and Rome	3
GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS 412	Contemporary Queer Art and Visual Culture	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS 528		3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Gender and Biology (Sexuality)	3
GEN&WS 533	Special Topics in Gender and Biology (Queer)	3
GEN&WS 533	Special Topics in Gender and Biology (LGBTQ+)	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS 538	Special Topics in LGBTQ+ Health	3

### Disability & Embodiment

Examine the creation and evolution of different categories of embodiment and the experience of living through and as bodies. These courses focus on gender and disability, exploring disability as a social category, a medical realm, a political identity, an analytical approach, and a lived experience.

Code	Title	Credits
GEN&WS 320	Special Topics in Gender, Women and Society (Disability)	3
GEN&WS 343	Queer Bodies	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 373	Gender & the Cultural Politics of Illness	3

GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS 445	The Body in Theory	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3

### CAPSTONE <sup>4</sup>

Code	Title	Credits
<b>Capstone course or Thesis Sequence:</b>		<b>3-6</b>
GEN&WS 640	Capstone Seminar in Gender and Women's Studies	
GEN&WS 681 & GEN&WS 682	Senior Honors Thesis I and Senior Honors Thesis II	
GEN&WS 691 & GEN&WS 692	Senior Thesis I and Senior Thesis II	
<b>Total Credits</b>		<b>3-6</b>

### RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all GEN&WS and major courses
- 2.000 GPA on 15 upper-level major credits, taken in Residence <sup>5</sup>
- 15 credits in GEN&WS, taken on the UW-Madison campus

### FOOTNOTES

1

A maximum of three courses designated as elementary level may apply in the major, overall. Directed study courses typically do not count toward the minimum credits required in the major.

2

GEN&WS 101 and GEN&WS 102 cannot both count toward the coursework required in the Gender and Women's Studies major. Students must choose one of these courses.

3

A single course may apply to both an Approach and an Issue Area. However, a single course may not apply to more than one Approach or to more than one Issue Area.

4

Students interested in the doing research in Gender & Women's Studies will develop a thesis topic in consultation with a member of the faculty. The senior thesis course sequence (GEN&WS 691-GEN&WS 692 or GEN&WS 681-GEN&WS 682) serves as the capstone requirement for the major. In this case, the student may still count GEN&WS 640 as an elective in the major.

5

Courses in GEN&WS with Intermediate or Advanced level designation are considered upper level in the major.

### HONORS IN THE MAJOR

To declare Honors in the Major in Gender and Women's Studies, students must submit a letter of application to the undergraduate advisor prior to enrollment in GEN&WS 681. The letter should include:

- A list of all planned and declared degrees, major and certificate programs
- Area(s) of research interest within gender and women's studies and ideas for an Senior Honors Thesis

- A letter from a faculty member agreeing to supervise the thesis project

## HONORS IN THE GENDER AND WOMEN'S STUDIES MAJOR REQUIREMENTS

To earn Honors in the Major in Gender and Women's Studies, students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all GEN&WS courses
- Complete at least 2 GEN&WS courses totaling 6 or more credits for Honors and earn grades of B or higher
- Complete GEN&WS 681 and GEN&WS 682 for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Knowledge of core concepts of gender and women's studies, including: gender, intersectionality, feminist theory, epistemology, class, race/ethnicity, global processes, sexuality, disability & embodiment, health and science, and contemporary and historical issues.
2. Intellectual and practical skills relating to gender and women's studies, including: problem solving, research and inquiry, interdisciplinarity, critical thinking, writing, oral communication, collaboration, creativity, and career skills.
3. Personal and social responsibility anchored through active involvement with diverse communities and real-world challenges. This category may include things like developing critical self and social awareness, applying ethical frameworks, learning through engaged practices.
4. Integrative learning demonstrated through the application of knowledge, skills and responsibilities to new settings and complex problems. This category may be acquired through advanced accomplishment and/or the application beyond the Gender & Women's Studies classroom to, for example, one's life, to activist project, and/or to non-Gender & Women's Studies academic coursework.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication-A, complete during the first year	3	Ethnic Studies, complete in your first 60 credits	3
Quantitative Reasoning-A, complete during the first year	3	Foreign Language, if required	4
Foreign Language, if required	4	GEN&WS 103	3
GEN&WS 102	3	L&S Breadth	3
First Year Seminar (optional)	1	I/A Comp Sci, Math, or Statistics, if required for the BS	3
	<b>14</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B, consult with an advisor about options and when to complete this course	3	Communication-B, consult with an advisor about options and when to complete this course	3
GEN&WS Humanities Approach/Disability & Embodiment Issue Area	3	GEN&WS Social Science Approach	3
L&S Breadth	3	L&S Breadth	3
Electives	6	Electives	5
		INTER-LS 210	1
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
GEN&WS Feminist Theory Approach	3	GEN&WS Elective/Race & Ethnicity Issue Area	3
I/A Comp Sci, Math, or Statistics, if required for the BS	3	GEN&WS Bio/Health Approach	3
L&S Breadth	3	L&S Breadth	3
Electives	6	Electives	6
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
GEN&WS Elective/Global Issue	3	GEN&WS 660 (optional)	3

Capstone Seminar	3 Electives	12
Electives	9	
	<b>15</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Working with your advisor helps you create a meaningful course plan as you complete your degree, major and/or certificate requirements. The undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) is available to consult on a variety of topics including: declaring the major and/or certificate, course selection and building a four-year plan, study abroad, volunteer and internship opportunities on campus and in the community, applying to graduate programs, and preparing for the job market after graduation.

### INTERNSHIP PROGRAM IN GENDER AND WOMEN'S STUDIES ([HTTPS://GWS.WISC.EDU/GWS660/](https://gws.wisc.edu/GWS660/))

Applied learning through professional experiences in gender and women's studies provides an opportunity for students to connect academic knowledge with community-based practice. Recognizing the power and importance of experiential and community-based learning, the Department of Gender and Women's Studies proudly offers local and global internship opportunities. In the internship program (<https://gws.wisc.edu/gws660/>), students work with organizations to apply their coursework in gender and women's studies to specific issues in the community. The accompanying 3-credit internship seminar offers a venue for students to engage deeply in feminist-based work and reflection while thinking critically about how to participate as feminists in activism and professional settings.

### CAREER DEVELOPMENT IN GENDER AND WOMEN'S STUDIES

The Department of Gender and Women's Studies is committed to helping our students articulate how skills and concepts learned in the classroom can be cultivated in professional settings. As reflected in our Learning Outcomes, (<https://womensstudies.wiscweb.wisc.edu/wp-content/uploads/sites/249/2017/09/GWSLearningOutcomes.pdf>) students in gender and women's studies develop important transferable skills in written and oral communication, critical thinking, problem solving, and collaboration, as well as critical self and social awareness. The department continues to expand career development opportunities for our students as we work with our alumni to offer workshops, panels, and networking opportunities. Contact the undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) to learn more about career development opportunities in Gender & Women's Studies.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

Professors Jill Casid (<https://gws.wisc.edu/staff/casid-jill-h/>), Finn Enke (<https://gws.wisc.edu/staff/enke-finn/>), Christine Garlough (<https://gws.wisc.edu/staff/garlough-christine/>), (<https://gws.wisc.edu/staff/hyde-janet-shibley/>) Judith Houck (<https://gws.wisc.edu/staff/houck-judy/>), Pernille Ipsen (<https://gws.wisc.edu/staff/ipsen-ernille/>), Maria Lepowsky (<https://gws.wisc.edu/staff/lepowsky-maria/>), Ellen Samuels (<https://gws.wisc.edu/staff/samuels-ellen/>)

Associate Professors Anna Campbell, (<https://gws.wisc.edu/staff/campbell-anna/>) Keisha Lindsay (<https://gws.wisc.edu/staff/lindsay-keisha/>), Sami Schalk (<https://gws.wisc.edu/staff/schalk-sami/>), Kate Walsh (<https://gws.wisc.edu/staff/walsh-kate/>)

Assistant Professors Sara Chadwick (<https://gws.wisc.edu/staff/chadwick-sara/>), Ruth Goldstein (<https://gws.wisc.edu/staff/goldstein-ruth/>), LiLi Johnson (<https://gws.wisc.edu/staff/johnson-lili/>), James McMaster (<https://gws.wisc.edu/staff/mcmaster-james/>), Annie Menzel (<https://gws.wisc.edu/staff/menzel-annie/>), Benjamin Mier-Cruz (<https://gws.wisc.edu/staff/mier-cruz-benjamin/>), Aurora Santiago-Ortiz (<https://gws.wisc.edu/staff/santiago-ortiz-aurora/>), Leigh Senderowicz (<https://gws.wisc.edu/staff/senderowicz-leigh/>), Marwa Shalaby (<https://gws.wisc.edu/staff/shalaby-marwa/>), Jess Waggoner (<https://gws.wisc.edu/staff/waggoner-jess/>), Kelly Ward (<https://gws.wisc.edu/staff/ward-kelly/>)

## GENDER AND WOMEN'S STUDIES, B.S.

The Gender and Women's Studies (GWS) curriculum provides a platform for students to study how equity and social justice are connected to gender, sexuality, and identity. Gender and Women's Studies students



explore the field through traditional disciplines, such as literature, history, anthropology, sociology, public health, education, law, biology, psychology, political science, and the visual arts. Students in our courses (<https://public.enroll.wisc.edu/search/?term=0000&subject=963>) develop strong analytical and communication skills through classroom discussion, writing, and independent projects. Undergraduates in our programs can pursue research skills through thesis writing, as well as professional development opportunities through career workshops with alumni and in our internship program (<https://gws.wisc.edu/gws660/>). As a result, graduates from our programs apply a critical lens in fields like health and public policy, social justice and advocacy, reproductive justice, non-profit administration, clinical medicine, software development, communications, and media production.

At the undergraduate level, the Department of Gender and Women’s Studies offers a variety of programs. Students can declare the Gender and Women’s Studies major (p. 753) and/or certificates, or minors, in Gender and Women’s Studies or LGBTQ+ Studies. The Gender and Women’s Studies certificate (p. 768) and the LGBTQ+ Studies certificate (p. 771) are both 5-course, 15-credit programs.

For more information about the department, including course listings, undergraduate advising, sample syllabi, and faculty bios, students can visit the GWS website (<http://www.gws.wisc.edu>).

## HOW TO GET IN

### DECLARATION

Intent to pursue the major can be declared by meeting with the undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) in Gender and Women’s Studies and completing this online declaration form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_7TFo8TzXGAcPdOt/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_7TFo8TzXGAcPdOt/)). Declaring the major as early as possible allows students to best align major coursework with their interests.

Students declared in the Certificate in Gender and Women’s Studies at the Undergraduate Level may not be declared in the Gender and Women’s Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

Foreign Language Complete the third unit of a foreign language.

L&S Breadth Complete:
 

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced Coursework Complete at least 60 credits at the Intermediate/Advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience Complete both:
 

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

Quality of Work
 

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Majors in Gender and Women's Studies are required to take foundational work in GEN&WS courses reflecting each of four approaches to knowledge (humanities, social science, theory, and biological or health sciences), one course from three of four issue areas (sexuality, disability and embodiment, race/ethnicity, and global), and a capstone seminar or thesis.

All majors complete a minimum of 30 credits in GEN&WS including: <sup>1</sup>

### INTRODUCTORY GEN&WS

Code	Title	Credits
GEN&WS 101	Gender, Women, and Cultural Representation <sup>2</sup>	3
or GEN&WS 102	Gender, Women, and Society in Global Perspective	
GEN&WS 103	Gender, Women, Bodies, and Health	3
<b>Total Credits</b>		<b>6</b>

### APPROACHES <sup>3</sup>

1 course from each area:

#### Biology and Health

Explore health as both a physiological and a socio#cultural experience, and recognize ways in which gender and other axes of social inequality influence health. Develop critical tools to place the medical field, scientific research, and public health and policy organizations into social contexts, and recognize how these institutions both can reflect and perpetuate dominant ideologies. Learn about feminist approaches to, and histories of, science, medicine, and health activism.

Code	Title	Credits
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 524	Race, Gender, Health, and Medicine	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS 527	The Environment of the Womb: Epigenetics and Parent/Child Health	3
GEN&WS 530	Biology and Gender	3
GEN&WS/HIST SCI/ MED HIST 531	Women and Health in American History	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Gender and Biology	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3

GEN&WS 538	Special Topics in LGBTQ+ Health	3
GEN&WS 539	Special Topics in Gender and Health	3

### Humanities

Engage with humanities-based theories, content areas, and methodologies as they relate to gender and women's studies. These include, but are not limited to, critical text analysis, discourse analysis, historical approaches and archival work, media studies, ethnography, and digital humanities. (GEN&WS courses with H, L or Z designations)

Code	Title	Credits
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS/ LITTRANS 205	Women in Russian Literature in Translation	3-4
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS 240	Feminist Approach to Research and Writing	3
GEN&WS/ ENGL 248	Women in Ethnic American Literature	3
GEN&WS/ ENGL 250	Women in Literature	3
GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
GEN&WS/ RELIG ST 305	Women, Gender and Religion	3
GEN&WS 310	Special Topics in Gender, Women and the Humanities	1-3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	3-4
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS 345	Narrating Queer Lives	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ ENGL 350	Special Topics in Gender & Literature	3

GEN&WS/ CLASSICS 351	Women and Gender in the Classical World	3-4
GEN&WS/ ENGL 359	Visionary and Speculative Fiction: Social Justice Approaches	3
GEN&WS/ CLASSICS 361	Sex and Power in Greece and Rome	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 373	Gender & the Cultural Politics of Illness	3
GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS/ENGL 401	Race, Sex, and Texts (How to do things with writing)	3
GEN&WS 410	Special Topics in Gender and Visual Culture	3
GEN&WS 412	Contemporary Queer Art and Visual Culture	3
GEN&WS/ THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism	3
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS/ FOLKLORE 428	Gender and Expressive Culture	3
GEN&WS/ AMER IND/ ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 449	Special Topics in Feminist Theory	3
GEN&WS/ PORTUG 450	Brazilian Women Writers	3
GEN&WS/ PORTUG 460	Carmen Miranda	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS/ FOLKLORE 467	Women and Politics in Popular Culture and Folklore	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3

GEN&WS/ ENGL 545	Feminist Theory and Women's Writing in English	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3

## Social Science

Engage with social-science-based theories, content areas, and methodologies as they relate to gender and women's studies. These include, but are not limited to, scientific and clinical research, statistical analysis, mixed-methods approaches, and theories of social change. (GEN&WS courses with S or Z designations)

Code	Title	Credits
GEN&WS 104	Gender, Sexuality, and Global Health	3
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 240	Feminist Approach to Research and Writing	3
GEN&WS 280	Honors Seminar: Studies in Gender, Sex, and Sexuality	3
GEN&WS 320	Special Topics in Gender, Women and Society	1-3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	3-4
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ HISTORY 392	Women and Gender in Modern Europe	3-4
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3

GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3	GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS 424	Women's International Human Rights	3	GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ LEGAL ST/SOC 425	Crime, Gender and Justice	3	<b>ISSUE AREAS</b> <sup>3</sup>		
GEN&WS 427	Global Feminisms	3	<b>Race/Ethnicity</b>		
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4	Explore the role of race/ethnicity as a tool of creating, identifying, materializing, and solidifying human difference. These courses may explore the construction and deployment of race/ethnicity anywhere in the world.		
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
GEN&WS 441	Contemporary Feminist Theories	3	GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3	GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
GEN&WS 446	Queer of Color Critique	3	GEN&WS/ ENGL 248	Women in Ethnic American Literature	3
GEN&WS 449	Special Topics in Feminist Theory	3	GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4	GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS/ GEOG 504	Feminist Geography: Theoretical Approaches	3	GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3	GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3	GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	3
GEN&WS 524	Race, Gender, Health, and Medicine	3	GEN&WS 330	Topics in Gender/Class/Race/ Ethnicity (Humanities)	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3	GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	3
GEN&WS 527	The Environment of the Womb: Epigenetics and Parent/Child Health	3	GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3	GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 536	Queering Sexuality Education	3	GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HIST SCI 537	Childbirth in the United States	3	GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS 538	Special Topics in LGBTQ+ Health	3	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 539	Special Topics in Gender and Health	3	GEN&WS/ AMER IND/ ANTHRO/ FOLKLORE 437	American Indian Women	3
GEN&WS 546	Feminist Theories and Masculinities	3	GEN&WS 446	Queer of Color Critique	3
GEN&WS/ ED POL 560	Gender and Education	3	GEN&WS/ PORTUG 450	Brazilian Women Writers	3
GEN&WS/SOC 611	Gender, Science and Technology	3	GEN&WS/ PORTUG 460	Carmen Miranda	3

### Feminist Theory

Explore feminist theoretical approaches, both national and international.

Code	Title	Credits
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality (Theory)	3
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS 445	The Body in Theory	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS 449	Special Topics in Feminist Theory	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers	3
GEN&WS 524	Race, Gender, Health, and Medicine	3

GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)	3
GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement	3
GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings	3
GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory	3

### Global

Explore aspects of gender in a comparative national frame. These classes may focus on the process of globalization or they may focus on gendered concerns in at least two national contexts.

Code	Title	Credits
GEN&WS 104	Gender, Sexuality, and Global Health	3
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 320	Special Topics in Gender, Women and Society (Global)	3
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS 427	Global Feminisms	3
GEN&WS/ FOLKLORE 428	Gender and Expressive Culture	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS 525	Gender and Global Health in Critical Perspective	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS/ URB R PL 644	International Development and Gender	3

### Sexuality

Explore "sexuality" under the assumption that sexuality is not a natural or self-evident attribute or category, these courses demonstrate how sexuality has come to assume a variety of culturally specific but often contested meanings.

Code	Title	Credits
GEN&WS/SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	3-4
GEN&WS 320	Special Topics in Gender, Women and Society (Sexuality)	3
GEN&WS 320	Special Topics in Gender, Women and Society (Queer)	3
GEN&WS 320	Special Topics in Gender, Women and Society (LGBTQ+)	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 343	Queer Bodies	3
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS 345	Narrating Queer Lives	3
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	3-4
GEN&WS/ CLASSICS 351	Women and Gender in the Classical World	3-4
GEN&WS/ CLASSICS 361	Sex and Power in Greece and Rome	3
GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS 412	Contemporary Queer Art and Visual Culture	3
GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature	3
GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature	3
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS 528		3
GEN&WS/HIST SCI/ MED HIST 532	The History of the (American) Body	3
GEN&WS 533	Special Topics in Gender and Biology (Sexuality)	3
GEN&WS 533	Special Topics in Gender and Biology (Queer)	3
GEN&WS 533	Special Topics in Gender and Biology (LGBTQ+)	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS 538	Special Topics in LGBTQ+ Health	3

### Disability & Embodiment

Examine the creation and evolution of different categories of embodiment and the experience of living through and as bodies. These courses focus on gender and disability, exploring disability as

a social category, a medical realm, a political identity, an analytical approach, and a lived experience.

Code	Title	Credits
GEN&WS 320	Special Topics in Gender, Women and Society (Disability)	3
GEN&WS 343	Queer Bodies	3
GEN&WS 370	Topics in Gender and Disability	3
GEN&WS 371	Disability and Gender in Film	3
GEN&WS 372	Visualizing Bodies	3
GEN&WS 373	Gender & the Cultural Politics of Illness	3
GEN&WS 374	Disability, Gender and Sexuality	3
GEN&WS 445	The Body in Theory	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3

## CAPSTONE <sup>4</sup>

Code	Title	Credits
<b>Capstone course or Thesis Sequence:</b>		<b>3-6</b>
GEN&WS 640	Capstone Seminar in Gender and Women's Studies	
GEN&WS 681 & GEN&WS 682	Senior Honors Thesis I and Senior Honors Thesis II	
GEN&WS 691 & GEN&WS 692	Senior Thesis I and Senior Thesis II	
<b>Total Credits</b>		<b>3-6</b>

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all GEN&WS and major courses
- 2.000 GPA on 15 upper-level major credits, taken in Residence <sup>5</sup>
- 15 credits in GEN&WS, taken on the UW-Madison campus

## FOOTNOTES

1

A maximum of three courses designated as elementary level may apply in the major, overall. Directed study courses typically do not count toward the minimum credits required in the major.

2

GEN&WS 101 and GEN&WS 102 cannot both count toward the coursework required in the Gender and Women's Studies major. Students must choose one of these courses.

3

A single course may apply to both an Approach and an Issue Area. However, a single course may not apply to more than one Approach or to more than one Issue Area.

4

Students interested in the doing research in Gender & Women's Studies will develop a thesis topic in consultation with a member of the faculty. The senior thesis course sequence (GEN&WS 691-GEN&WS 692 or GEN&WS 681-GEN&WS 682) serves as the capstone requirement for the major. In this case, the student may still count GEN&WS 640 as an elective in the major.

5

Courses in GEN&WS with Intermediate or Advanced level designation are considered upper level in the major.

## HONORS IN THE MAJOR

To declare Honors in the Major in Gender and Women's Studies, students must submit a letter of application to the undergraduate advisor prior to enrollment in GEN&WS 681. The letter should include:

- A list of all planned and declared degrees, major and certificate programs
- Area(s) of research interest within gender and women's studies and ideas for an Senior Honors Thesis
- A letter from a faculty member agreeing to supervise the thesis project

## HONORS IN THE GENDER AND WOMEN'S STUDIES MAJOR REQUIREMENTS

To earn Honors in the Major in Gender and Women's Studies, students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all GEN&WS courses
- Complete at least 2 GEN&WS courses totaling 6 or more credits for Honors and earn grades of B or higher
- Complete GEN&WS 681 and GEN&WS 682 for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Knowledge of core concepts of gender and women's studies, including: gender, intersectionality, feminist theory, epistemology, class, race/ethnicity, global processes, sexuality, disability & embodiment, health and science, and contemporary and historical issues.
2. Intellectual and practical skills relating to gender and women's studies, including: problem solving, research and inquiry, interdisciplinarity,

critical thinking, writing, oral communication, collaboration, creativity, and career skills.

3. Personal and social responsibility anchored through active involvement with diverse communities and real-world challenges. This category may include things like developing critical self and social awareness, applying ethical frameworks, learning through engaged practices.
4. Integrative learning demonstrated through the application of knowledge, skills and responsibilities to new settings and complex problems. This category may be acquired through advanced accomplishment and/or the application beyond the Gender & Women's Studies classroom to, for example, one's life, to activist project, and/or to non-Gender & Women's Studies academic coursework.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication-A, complete during the first year		3 Ethnic Studies, complete in your first 60 credits	3
Quantitative Reasoning-A, complete during the first year		3 Foreign Language, if required	4
Foreign Language, if required		4 GEN&WS 103	3
GEN&WS 102		3 L&S Breadth	3
First Year Seminar (optional)		1 I/A Comp Sci, Math, or Statistics, if required for the BS	3
	<b>14</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B, consult with an advisor about options and when to complete this course		3 Communication-B, consult with an advisor about options and when to complete this course	3
GEN&WS Humanities Approach/Disability & Embodiment Issue Area		3 GEN&WS Social Science Approach	3
L&S Breadth		3 L&S Breadth	3
Electives		6 Electives	5
		INTER-LS 210	1
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
GEN&WS Feminist Theory Approach		3 GEN&WS Elective/Race & Ethnicity Issue Area	3
I/A Comp Sci, Math, or Statistics, if required for the BS		3 GEN&WS Bio/Health Approach	3
L&S Breadth		3 L&S Breadth	3
Electives		6 Electives	6
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
GEN&WS Elective/Global Issue		3 GEN&WS 660 (optional)	3
Capstone Seminar		3 Electives	12
Electives		9	
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Working with your advisor helps you create a meaningful course plan as you complete your degree, major and/or certificate requirements. The undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) is available to consult on a variety of topics including: declaring the major and/or certificate, course selection and building a four-year plan, study abroad, volunteer and internship opportunities on campus and in the community, applying to graduate programs, and preparing for the job market after graduation.

### INTERNSHIP PROGRAM IN GENDER AND WOMEN'S STUDIES ([HTTPS://GWS.WISC.EDU/GWS660/](https://gws.wisc.edu/GWS660/))

Applied learning through professional experiences in gender and women's studies provides an opportunity for students to connect academic knowledge with community-based practice. Recognizing the power and importance of experiential and community-based learning, the Department of Gender and Women's Studies proudly offers local and global internship opportunities. In the internship program (<https://gws.wisc.edu/gws660/>), students work with organizations to apply their coursework in gender and women's studies to specific issues in the community. The accompanying 3-credit internship seminar offers a venue for students to engage deeply in feminist-based work and reflection while thinking critically about how to participate as feminists in activism and professional settings.

### CAREER DEVELOPMENT IN GENDER AND WOMEN'S STUDIES

The Department of Gender and Women's Studies is committed to helping our students articulate how skills and concepts learned in the classroom can be cultivated in professional settings. As reflected in our Learning Outcomes, (<https://womensstudies.wiscweb.wisc.edu/wp-content/uploads/sites/249/2017/09/GWSLearningOutcomes.pdf>) students in gender and women's studies develop important transferable skills in written and oral communication, critical thinking, problem solving, and collaboration, as well as critical self and social awareness. The department

continues to expand career development opportunities for our students as we work with our alumni to offer workshops, panels, and networking opportunities. Contact the undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) to learn more about career development opportunities in Gender & Women's Studies.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

Professors Jill Casid (<https://gws.wisc.edu/staff/casid-jill-h/>), Finn Enke (<https://gws.wisc.edu/staff/enke-finn/>), Christine Garlough (<https://gws.wisc.edu/staff/garlough-christine/>), (<https://gws.wisc.edu/staff/hyde-janet-shibley/>) Judith Houck (<https://gws.wisc.edu/staff/houck-judy/>), Pernille Ipsen (<https://gws.wisc.edu/staff/ipsen-ernille/>), Maria Lepowsky (<https://gws.wisc.edu/staff/lepowsky-maria/>), Ellen Samuels (<https://gws.wisc.edu/staff/samuels-ellen/>)

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## GENDER AND WOMEN'S STUDIES, CERTIFICATE

The Gender and Women's Studies (GWS) curriculum provides a platform for students to study how equity and social justice are connected to gender, sexuality, and identity. Gender and Women's Studies students explore the field through traditional disciplines, such as literature, history, anthropology, sociology, public health, education, law, biology, psychology, political science, and the visual arts.

The certificate program requires 15 credits of coursework in gender and women's studies. Students can tailor the certificate to reflect their interests, complement their major or plan for graduate or professional school.

## HOW TO GET IN

Intent to pursue the certificate can be declared by meeting with the Department of Gender and Women's Studies undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) or completing this online declaration form. ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_74d4sqldVIGCYjX/?Q\\_JFE=qdg](https://uwmadison.co1.qualtrics.com/jfe/form/SV_74d4sqldVIGCYjX/?Q_JFE=qdg)) Declaring the certificate as early as possible allows students to best align certificate coursework with their interests.

Students declared in the Gender and Women's Studies major are not eligible to declare the Certificate in Gender and Women's Studies at the Undergraduate Level.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

15 credits of which at least 12 credits are in GEN&WS courses, to include: <sup>1</sup>

### HUMANITIES

Code	Title	Credits
<b>Complete one from:</b>		<b>3</b>
GEN&WS 101	Gender, Women, and Cultural Representation <sup>2</sup>	
GEN&WS/ SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	
GEN&WS/ LITTRANS 205	Women in Russian Literature in Translation	
GEN&WS/ AFROAMER 221	Introduction to Black Women's Studies	



GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	GEN&WS/ ENGL 401	Race, Sex, and Texts (How to do things with writing)
GEN&WS 240	Feminist Approach to Research and Writing	GEN&WS 410	Special Topics in Gender and Visual Culture
GEN&WS/ CHICLA/ HISTORY 245	Chicana and Latina History	GEN&WS 412	Contemporary Queer Art and Visual Culture
GEN&WS/ ENGL 248	Women in Ethnic American Literature	GEN&WS/ THEATRE 415	Introduction to Contemporary Feminist Theatre and Criticism
GEN&WS/ ENGL 250	Women in Literature	GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media
GEN&WS/ LITTRANS 270	German Women Writers in Translation	GEN&WS/ FOLKLORE 428	Gender and Expressive Culture
GEN&WS/ RELIG ST 305	Women, Gender and Religion	GEN&WS/ AMER IND/ ANTHRO/ FOLKLORE 437	American Indian Women
GEN&WS 310	Special Topics in Gender, Women and the Humanities	GEN&WS/ LITTRANS/ SCAND ST 438	Sexual Politics in Scandinavia
GEN&WS/ HISTORY 315	Gender, Race and Colonialism	GEN&WS 441	Contemporary Feminist Theories
GEN&WS/ COM ARTS 316	Gender and Communication	GEN&WS 445	The Body in Theory
GEN&WS 319	Study Abroad Special Topic: Gender, Women and the Humanities	GEN&WS 449	Special Topics in Feminist Theory
GEN&WS/ AFROAMER 324	Black Women in America: Reconstruction to the Present	GEN&WS/ PORTUG 450	Brazilian Women Writers
GEN&WS/ AFROAMER 326	Race and Gender in Post-World War II U.S. Society	GEN&WS/ PORTUG 460	Carmen Miranda
GEN&WS 330	Topics in Gender/Class/Race/Ethnicity (Humanities)	GEN&WS/ ASIAN AM/ ENGL 463	Race and Sexuality in American Literature
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	GEN&WS/ ASIAN AM/ ENGL 464	Asian American Women Writers
GEN&WS 340	Topics in LGBTQ Sexuality	GEN&WS/ FOLKLORE 468	Feminism, Folklore and Comparative Literature
GEN&WS 342	Transgender Studies	GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change
GEN&WS 343	Queer Bodies	GEN&WS/ HIST SCI/ MED HIST 532	The History of the (American) Body
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	GEN&WS/ ENGL 545	Feminist Theory and Women's Writing in English
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	GEN&WS 547	Theorizing Intersectionality
GEN&WS/ ENGL 350	Special Topics in Gender & Literature	GEN&WS/ AFROAMER 624	African American Women's Activism (19th & 20th Centuries)
GEN&WS/ CLASSICS 351	Women and Gender in the Classical World	GEN&WS/ AFROAMER 625	Gender, Race and the Civil Rights Movement
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	GEN&WS/ AFROAMER 677	Critical and Theoretical Perspectives in Black Women's Writings
GEN&WS/ ENGL 359	Visionary and Speculative Fiction: Social Justice Approaches	GEN&WS/ AFROAMER 679	Visual Culture, Gender and Critical Race Theory
GEN&WS/ CLASSICS 361	Sex and Power in Greece and Rome	FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	HISTORY 275	Topics in LGBT History
GEN&WS 370	Topics in Gender and Disability		
GEN&WS 371	Disability and Gender in Film		
GEN&WS 372	Visualizing Bodies		
GEN&WS 373	Gender & the Cultural Politics of Illness		

**Total Credits****3**

**SOCIAL SCIENCE**

Code	Title	Credits
<b>Complete one from:</b>		
GEN&WS 102	Gender, Women, and Society in Global Perspective <sup>2</sup>	<b>3</b>
GEN&WS 104	Gender, Sexuality, and Global Health	
GEN&WS/ SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	
GEN&WS 240	Feminist Approach to Research and Writing	
GEN&WS 320	Special Topics in Gender, Women and Society	
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	
GEN&WS 329	Study Abroad Special Topic: Gender, Women in Society	
GEN&WS 331	Topics in Gender/Class/Race/ Ethnicity (Social Sciences)	
GEN&WS/ AFROAMER 333	Black Feminisms	
GEN&WS 340	Topics in LGBTQ Sexuality	
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	
GEN&WS/ HISTORY 392	Women and Gender in Modern Europe	
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	
GEN&WS 420	Women in Cross-Societal Perspective	
GEN&WS/ LEGAL ST 422	Women and the Law	
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	
GEN&WS 424	Women's International Human Rights	
GEN&WS/ LEGAL ST/ SOC 425	Crime, Gender and Justice	
GEN&WS 427	Global Feminisms	
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	
GEN&WS 441	Contemporary Feminist Theories	
GEN&WS/ ANTHRO 443	Anthropology by Women	
GEN&WS 446	Queer of Color Critique	
GEN&WS 449	Special Topics in Feminist Theory	

GEN&WS/ POLI SCI 469	Women and Politics	<b>3</b>	
GEN&WS/ GEOG 504	Feminist Geography: Theoretical Approaches		
GEN&WS/ PSYCH 522	Psychology of Women and Gender		
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health		
GEN&WS 524	Race, Gender, Health, and Medicine		
GEN&WS 525	Gender and Global Health in Critical Perspective		
GEN&WS 527	The Environment of the Womb: Epigenetics and Parent/Child Health		
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives		
GEN&WS 536	Queering Sexuality Education		
GEN&WS/ HIST SCI 537	Childbirth in the United States		
GEN&WS 538	Special Topics in LGBTQ+ Health		
GEN&WS 539	Special Topics in Gender and Health		
GEN&WS/ ED POL 560	Gender and Education		
GEN&WS/ SOC 611	Gender, Science and Technology		
<b>Total Credits</b>			<b>3</b>

**NATURAL AND BIOLOGICAL SCIENCE**

Code	Title	Credits
<b>Complete one from:</b>		
GEN&WS 103	Gender, Women, Bodies, and Health	<b>3</b>
GEN&WS 530	Biology and Gender	
GEN&WS/ HIST SCI/ MED HIST 531	Women and Health in American History	
GEN&WS 533	Special Topics in Gender and Biology	
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	
<b>Total Credits</b>		

**ELECTIVES**

Code	Title	Credits
Additional courses in GEN&WS to reach 15 credits for the certificate		6
<b>Total Credits</b>		<b>6</b>

1

Students cannot take courses pass/fail for credit in the certificate.

2

Students may not take both GEN&amp;WS 101 and GEN&amp;WS 102 for the certificate.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all certificate credits
- 9 credits at the intermediate or advanced level
- 8 credits in residence

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

### LEARNING OUTCOMES

1. Demonstrate interdisciplinary understanding of core concepts and debates in Gender and Women's Studies.
2. Demonstrate the practical skills related to Gender and Women's Studies, such as critical thinking and analysis, inquiry, and written and oral communication.
3. Understand the interdisciplinary nature of Gender and Women's Studies research and connect this scholarship to the institutions that shape everyday life.
4. Develop Gender and Women's Studies knowledge, skills, and social engagement and demonstrate how these ideas can be applied to new settings, ideas, and understandings.

### ADVISING AND CAREERS

Connecting and working with the undergraduate advisor in Gender and Women's Studies as early as possible helps you create a meaningful course plan and stay on track as you complete the certificate requirements.

The undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) is available to consult on a variety of topics including: declaring the certificate, course selection, study abroad, volunteer and internship opportunities on campus and in the community, applying to graduate programs, and preparing for the job market after graduation.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
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### PEOPLE

#### FACULTY

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## LGBTQ+ STUDIES, CERTIFICATE

The LGBTQ+ Studies Certificate Program, housed administratively in the Department of Gender and Women's Studies, is a campuswide program open to students in any major. Courses that count toward this interdisciplinary certificate come from a wide range of fields including literature, history, sociology, medical history, as well as from gender and women's studies, which is in itself an interdisciplinary field. This certificate can compliment many other programs and plans across campus, including, but not limited to gender and women's studies. New courses are added to the program each semester.

## HOW TO GET IN

Intent to pursue the certificate can be declared by meeting with the undergraduate advisor (<https://gws.wisc.edu/undergraduate/undergraduate-advising/>) and completing the declaration form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_ETF8mvBhIRq826F/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_ETF8mvBhIRq826F/)). Declaring the certificate as early as possible allows students to best align certificate coursework with their interests.

## REQUIREMENTS

### REQUIREMENTS FOR THE LGBTQ + STUDIES CERTIFICATE

15 credits as follows: <sup>1</sup>

Code	Title	Credits
<b>Introduction to LGBTQ+ Studies</b>		<b>3-4</b>
GEN&WS/ SOC 200	Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies	
<b>Social Science Course in LGBTQ+ Studies</b>		<b>3</b>
COM ARTS/ GEN&WS 418	Gender, Sexuality, and the Media	
COUN PSY 332	Gender and Queer Issues in Psychology	
GEN&WS 280	Honors Seminar: Studies in Gender, Sex, and Sexuality	
GEN&WS 320	Special Topics in Gender, Women and Society (Queer)	
GEN&WS 320	Special Topics in Gender, Women and Society (Sexuality)	
GEN&WS 340	Topics in LGBTQ Sexuality <sup>2</sup>	
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	
GEN&WS 446	Queer of Color Critique	
GEN&WS 449	Special Topics in Feminist Theory (Queer) <sup>2</sup>	
GEN&WS 536	Queering Sexuality Education	
GEN&WS 538	Special Topics in LGBTQ+ Health	
GEN&WS 539	Special Topics in Gender and Health (Queer)	
GEN&WS 539	Special Topics in Gender and Health (LGBTQ+)	
HISTORY 275	Topics in LGBT History <sup>2</sup>	
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	
SOC WORK 639	Gay, Lesbian, Bisexual, and Transgender (GLBT) Individuals and Social Welfare	
<b>Humanities Course in LGBTQ+ Studies</b>		<b>3</b>
ART HIST 425	Race and Gender in Italian Early Modern Art	
ASIAN AM/ENGL/ GEN&WS 463	Race and Sexuality in American Literature	

GEN&WS/ ENGL 350	Special Topics in Gender & Literature ((Queer))	
CLASSICS/ GEN&WS 351	Women and Gender in the Classical World	
CLASSICS/ GEN&WS 361	Sex and Power in Greece and Rome	
ENGL 171	Literature, Gender, and Sexuality	
FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature	
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer)	
GEN&WS 340	Topics in LGBTQ Sexuality	
GEN&WS 342	Transgender Studies	
GEN&WS 343	Queer Bodies	
GEN&WS/ HISTORY 346	Trans/Gender in Historical Perspective	
GEN&WS 410	Special Topics in Gender and Visual Culture (Queer)	
GEN&WS 412	Contemporary Queer Art and Visual Culture	
GEN&WS 445	The Body in Theory	
GEN&WS 449	Special Topics in Feminist Theory (Queer)	
GEN&WS/ HIST SCI/ MED HIST 532	The History of the (American) Body	
HISTORY 275	Topics in LGBT History	
HISTORY/ GEN&WS 346	Trans/Gender in Historical Perspective	
HISTORY/ GEN&WS 519	Sexuality, Modernity and Social Change	
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia	
THEATRE/ GEN&WS 415	Introduction to Contemporary Feminist Theatre and Criticism	
<b>Electives in LGBTQ+ Studies (Humanities, Social Science, or other listed below)</b>		<b>6</b>
GEN&WS 533	Special Topics in Gender and Biology (Queer)	
GEN&WS 533	Special Topics in Gender and Biology (LGBTQ+)	

**Total Credits** **15**

**1**

No more than two Elementary level courses, including GEN&WS/SOC 200, can count for the LGBTQ+ Studies certificate. Courses taken on a pass/fail basis will not satisfy certificate requirements.

**2**

Topics courses, such as HISTORY 275 and GEN&WS 340, may be taught with a number of different LGBTQ+ Studies topics and therefore may be taken more than once, so long as the topic is different.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all GEN&WS courses and all certificate courses
- 8 certificate credits In Residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate interdisciplinary understanding of core concepts and debates in LGBTQ+ Studies.
2. Demonstrate the practical skills related to LGBTQ+ Studies, such as critical thinking and analysis, inquiry, and written and oral communication.
3. Understand the interdisciplinary nature of LGBTQ+ Studies research, and connect this scholarship to the institutions that shape everyday life.
4. Develop LGBTQ+ Studies knowledge, skills, and social engagement and demonstrate how these ideas can be applied to new settings, ideas, and understandings.

### ADVISING AND CAREERS

Connecting and working with the undergraduate advisor in LGBTQ+ studies as early as possible helps you create a meaningful course plan and stay on track as you complete the certificate requirements.

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  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

LGBTQ+ Studies Program Faculty:

<https://gws.wisc.edu/people/lgbtqstudiesprogramfaculty/>

Academic Advisor: Lachrista Greco (<https://gws.wisc.edu/staff/greco-lachrista/>)

Curricular Planning: Nina Valeo Cooke (<https://gws.wisc.edu/staff/valeo-nina/>)

## GEOGRAPHY

Geography studies the interaction between people and their environments including the ways in which the people, the environments, and the interactions all vary from place to place over the earth. Because it is concerned with the character of people and their cultures on the one hand, and with the character of the earth's surface and its resources on the other, it is both a social and a natural science. Being broad and integrative, geography provides an appropriate foundation for a liberal education. It also provides a base for employment in public or private agencies, both domestic and international, concerned with environmental management, locational analysis or planning (urban, regional, land use).

Cartography/GIS, also known more broadly as geographic information science, studies and develops digital technology and the theory behind this technology to help people work with geographic information. This broad area interfaces with work from the physical and social sciences. It is a field devoted to the acquisition, management, analysis, visualization, and representation of geospatial data. It is a relatively new discipline that incorporates geography, cartography, spatial analysis, and related fields such as geovisualization, geodesy, geocomputation, cognition, and computer science. At the present time professionals trained in geographic information science are very much in demand by federal agencies, state and local governments, and private firms.

The student desiring a limited introduction to the field of geography may select any introductory course in cultural or physical geography. Students with special interests in any of a number of fields outside of geography, such as history, political science, economics, anthropology, sociology, meteorology, geology, etc., will find useful background courses in geography. The student desiring a limited introduction to the field of GIScience may select either GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology or GEOG 370 Introduction to Cartography or GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems. Students in landscape architecture, urban and regional planning, civil and environmental engineering, medical illustration, or the environmental sciences may find GIScience a useful addition to their major course of study.

Department course offerings are listed in five major groups:

1. Physical Geography: Earth Systems and Environmental Processes
2. People–Environment Interaction
3. Human Geography
4. Area Studies and Global Systems
5. Cartography and Geographic Information Science

Courses in groups 1 and 5 are counted as physical science; those in groups 2 (except GEOG/ENVIR ST/SOIL SCI 230 Soil: Ecosystem and Resource and BOTANY 240 Plants and Humans), 3, and 4 are counted as social science.

## DEGREES/MAJORS/CERTIFICATES

- Cartography and Geographic Information Systems, B.A. (p. 774)
- Cartography and Geographic Information Systems, B.S. (p. 778)
- Geography, B.A. (p. 783)
- Geography, B.S. (p. 789)

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin–Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, B.A.

People often ask, “So you’re a cartographer? Hasn’t everything already been mapped?” No, cartographers are not explorers charting frontiers in an ancient time; we are artists, community organizers, data scientists, visual storytellers, and full-stack web developers. In an era of massive data sets and location-based apps, maps and geospatial data have never been more important, and the UW–Madison Cartography and GIS major covers the conceptual foundations and technical skills needed to harness maps and geospatial data to solve society’s most pressing problems. Courses range from graphic design and web mapping to big data analytics and mobile app development, with all courses having an important laboratory component to work with industry-standard cartography and GIS technology. So, yes, everywhere has been mapped in some form, but in a dynamic world driven by information and technology, cartographers and GIS scientists are needed more now than ever to help us understand our changing planet.

## HOW TO GET IN

Exploring the field of geographic information science at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses in geographic information science:

- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online);

- GEOG 370 Introduction to Cartography;
- GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/LAND ARC 371 Introduction to Environmental Remote Sensing; and
- GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems

Students who intend to declare their major as cartography and GIS need to schedule an appointment with the geography undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>Complete the fourth unit of a foreign language; OR</li> <li>Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
L&S Breadth	<ul style="list-style-type: none"> <li>12 credits of Humanities, which must include 6 credits of literature; and</li> <li>12 credits of Social Science; and</li> <li>12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>30 credits in residence, overall; and</li> <li>30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>2.000 in all coursework at UW-Madison</li> <li>2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR BREADTH

3 courses, 1 each from these areas:

Code	Title	Credits
<b>Human Geography (1 course)</b>		<b>3</b>
GEOG 101	Introduction to Human Geography	
GEOG 104	Introduction to Human Geography	
GEOG 301	Revolutions and Social Change	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/URB R PL 305	Introduction to the City	
GEOG 307	International Migration, Health, and Human Rights	
GEOG/CHICLA/GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	
GEOG/INTL ST 311	The Global Game: Soccer, Politics, and Identity	
GEOG/INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG 318	Introduction to Geopolitics	

GEOG 300	Weird Geographies
GEOG 340	World Regions in Global Context
GEOG 342	Geography of Wisconsin
GEOG 355	Africa, South of the Sahara
GEOG 358	Human Geography of Southeast Asia
GEOG/AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/ENVIR ST/HISTORY 469	The Making of the American Landscape
GEOG 501	Space and Place: A Geography of Experience
GEOG/URB R PL 503	Researching the City: Qualitative Strategies
GEOG/GEN&WS 504	Feminist Geography: Theoretical Approaches
GEOG/URB R PL 505	Urban Spatial Patterns and Theories
GEOG 507	Waste Geographies: Politics, People, and Infrastructures
GEOG 510	Economic Geography
GEOG 511	Critical Social Theory
GEOG/GEN&WS 514	Feminist Geography: Methodological Approaches
GEOG 518	Power, Place, Identity
GEOG 566	History of Geographic Thought

### People-Environment (1 course) **3**

GEOG/ENVIR ST 139	Global Environmental Issues
GEOG/ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
GEOG/ATM OCN/ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ENVIR ST 333	Green Urbanism
GEOG/ENVIR ST 337	Nature, Power and Society
GEOG/BOTANY 338	Environmental Biogeography
GEOG/ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 344	Changing Landscapes of the American West
GEOG/AMER IND/ENVIR ST 345	Managing Nature in Native North America
GEOG 359	Australia: Environment and Society
GEOG/AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/C&E SOC/ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ENVIR ST 439	US Environmental Policy and Regulation

GEOG/ENVIR ST/ HISTORY 460	American Environmental History	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	
GEOG/ ENVIR ST 537	Culture and Environment	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	
<b>Physical Geography (1 course)</b>		<b>3</b>
GEOG/ ENVIR ST 120	Introduction to the Earth System	
GEOG/ ENVIR ST 127	Physical Systems of the Environment	
GEOG/ GEOSCI 320	Geomorphology	
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG 342	Geography of Wisconsin	
GEOG 344	Changing Landscapes of the American West	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change	
GEOG/ SOIL SCI 525	Soil Geomorphology	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
<b>Total Credits</b>		<b>9</b>

## SKILLS, TECHNIQUES & METHODOLOGY

Code	Title	Credits
<b>Core Cartography/GIS</b>		
GEOG 370	Introduction to Cartography	4

GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371 or GEOG 379	Introduction to Environmental Remote Sensing  Geospatial Technologies: Drones, Sensors, and Applications	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
<b>Quantitative Methods (1 course)</b>		<b>3-4</b>
GEOG 560	Advanced Quantitative Methods	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Mathematics Proficiency</b>		<b>6</b>
<i>Complete one of the following by Placement or by completing the course</i>		
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
<b>Total Credits</b>		<b>24-25</b>

## DEPTH

Code	Title	Credits
<b>Two courses</b>		
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	
GEOG 572	Graphic Design in Cartography	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	
GEOG 579	GIS and Spatial Analysis	
<b>Total Credits</b>		<b>7-8</b>

## CAPSTONE

Code	Title	Credits
<b>Complete one of:</b>		
GEOG 565	Colloquium for Undergraduate Majors	
GEOG 681 & GEOG 682	Senior Honors Thesis and Senior Honors Thesis	
GEOG 691 & GEOG 692	Senior Thesis and Senior Thesis	
<b>Total Credits</b>		<b>3-6</b>



## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in GEOG and major courses
- 2.000 GPA on 15 upper-level credits, taken in residence<sup>2</sup>
- 15 credits in GEOG, taken on the UW–Madison campus

2

GEOG courses designated Intermediate/Advanced are upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Cartography and GIS Major in consultation with the Geography undergraduate advisor.

### HONORS IN THE CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS MAJOR REQUIREMENTS

To earn Honors in the Major in Cartography and GIS, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete GEOG 578: GIS Applications with a grade of B or better
- Complete at least one advanced-level course OR 6 credits of honors credits in the major at the 300 level or above
- Complete a two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, a piece of original research composition, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS).
2. Skills in developing and implementing research plans.
3. Critical reasoning and analytical skills.
4. Communication skills - both written and oral.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 112		3 MATH 113	3
Communication A		3 Ethnic Studies	4
Foreign Language		4 Foreign Language	4
Humanities Breadth		3 Literature Breadth	3
Elective		2	
		<b>15</b>	<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
STAT 301		3 GEOG/CIV ENGR/ ENVIR ST 377	4
GEOG 370		4 Communication B	4
INTER-LS 210		1 Biological Science Breadth	3
Literature Breadth		3 Elective	4
Elective		4	
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
GEOG 378		4 500-level Cartography/ GIS Elective	4
Major course: Human Geography		3-4 Biological Science Breadth	3
Electives		9 Humanities Breadth	3
		Major course: People- Environment Geography	3-4
		<b>16</b>	<b>14</b>

**Fourth Year**

Fall	Credits	Spring	Credits
GEOG/ENVIR ST/ F&W ECOL/G L E/ GEOSCI/LAND ARC 371		3 500-level Cartography/ GIS Elective	4
Major course: Physical Geography		4 Electives	12
GEOG 565	3		
Electives	5		
	<b>15</b>		<b>16</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

**CAREERS**

Cartography and GIS is a booming profession, but remains one of the biggest secrets on campus because of the limited treatment of geography in K-12 education. The Department of Labor reported that there were 425,000 US residents working in the geospatial industry (<http://www.esri.com/news/arcnews/summer12articles/strengthening-the-gis-profession.html>) in 2010, and the National Research Council estimates this could exceed 2 million by 2020. Cartography and GIS recently was rated the #1 profession in engineering, in part due to its extremely low unemployment rate (less than 1% of students with degrees!), strong future growth of the job market, and relatively low-stress rating. Our alumni work in local, national, and international government positions, as well as in private industry, including firms such as Apple, Google, Facebook, and Uber, and media outlets such as *National Geographic*, *The New York Times*, and *The Wall Street Journal*.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

**CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS, B.S.**

People often ask, "So you're a cartographer? Hasn't everything already been mapped?" No, cartographers are not explorers charting frontiers in an ancient time; we are artists, community organizers, data scientists, visual storytellers, and full-stack web developers. In an era of massive data sets and location-based apps, maps and geospatial data have never been more important, and the UW-Madison Cartography and GIS major covers the conceptual foundations and technical skills needed to harness maps and geospatial data to solve society's most pressing problems. Courses range from graphic design and web mapping to big data analytics and mobile app development, with all courses having an important laboratory component to work with industry-standard cartography and GIS technology. So, yes, everywhere has been mapped in some form, but in a dynamic world driven by information and technology, cartographers and GIS scientists are needed more now than ever to help us understand our changing planet.

**HOW TO GET IN**

Exploring the field of geographic information science at UW-Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses in geographic information science:

- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online);
- GEOG 370 Introduction to Cartography;
- GEOG/ENVIR ST/F&W ECOL/G L E/GEOSCI/LAND ARC 371 Introduction to Environmental Remote Sensing; and
- GEOG/CIV ENGR/ENVIR ST 377 An Introduction to Geographic Information Systems

Students who intend to declare their major as cartography and GIS need to schedule an appointment with the geography undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
<b>Depth of Advanced Coursework</b>	Complete at least 60 credits at the Intermediate or Intermediate/Advanced level.
<b>Major</b>	Declare and complete at least one major.
<b>Total Credits</b>	Complete at least 120 credits.
<b>UW-Madison Experience</b>	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR BREADTH

3 courses, 1 each from these areas:

Code	Title	Credits
<b>Human Geography (1 course)</b>		<b>3</b>
GEOG 101	Introduction to Human Geography	
GEOG 104	Introduction to Human Geography	
GEOG 301	Revolutions and Social Change	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ URB R PL 305	Introduction to the City	
GEOG 307	International Migration, Health, and Human Rights	
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG 318	Introduction to Geopolitics	
GEOG 300	Weird Geographies	
GEOG 340	World Regions in Global Context	
GEOG 342	Geography of Wisconsin	
GEOG 355	Africa, South of the Sahara	
GEOG 358	Human Geography of Southeast Asia	
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	

GEOG 501	Space and Place: A Geography of Experience
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG 507	Waste Geographies: Politics, People, and Infrastructures
GEOG 510	Economic Geography
GEOG 511	Critical Social Theory
GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches
GEOG 518	Power, Place, Identity
GEOG 566	History of Geographic Thought
<b>People-Environment (1 course) 3</b>	
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ENVIR ST 333	Green Urbanism
GEOG/ ENVIR ST 337	Nature, Power and Society
GEOG/ BOTANY 338	Environmental Biogeography
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 344	Changing Landscapes of the American West
GEOG/ AMER IND/ ENVIR ST 345	Managing Nature in Native North America
GEOG 359	Australia: Environment and Society
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment

GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
<b>Physical Geography (1 course) 3</b>	
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOG/ GEOSCI 320	Geomorphology
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment
GEOG 329	Landforms and Landscapes of North America
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
GEOG/ BOTANY 338	Environmental Biogeography
GEOG 342	Geography of Wisconsin
GEOG 344	Changing Landscapes of the American West
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change
GEOG/ SOIL SCI 525	Soil Geomorphology
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change

**Total Credits 9**

## SKILLS, TECHNIQUES & METHODOLOGY

Code	Title	Credits
<b>Core Cartography/GIS</b>		
GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371 or GEOG 379	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	Geospatial Technologies: Drones, Sensors, and Applications	4
GEOG 378	An Introduction to Geographic Information Systems	4
	Introduction to Geocomputing	4
<b>Quantitative Methods (1 course)</b>		<b>3-4</b>

GEOG 560	Advanced Quantitative Methods
STAT 301	Introduction to Statistical Methods
STAT 324	Introductory Applied Statistics for Engineers
STAT 371	Introductory Applied Statistics for the Life Sciences
<b>Mathematics Proficiency</b> <b>6</b>	
<i>Complete one of the following by Placement or by completing the course</i>	
MATH 112 & MATH 113	Algebra and Trigonometry
MATH 114	Algebra and Trigonometry

**Total Credits** **24-25**

## DEPTH

Code	Title	Credits
<b>Two courses</b> <b>7-8</b>		
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	
GEOG 572	Graphic Design in Cartography	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	
GEOG 579	GIS and Spatial Analysis	
<b>Total Credits</b>		<b>7-8</b>

## CAPSTONE

Code	Title	Credits
<b>Complete one of:</b> <b>3-6</b>		
GEOG 565	Colloquium for Undergraduate Majors	
GEOG 681 & GEOG 682	Senior Honors Thesis and Senior Honors Thesis	
GEOG 691 & GEOG 692	Senior Thesis and Senior Thesis	
<b>Total Credits</b>		<b>3-6</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in GEOG and major courses
- 2.000 GPA on 15 upper-level credits, taken in residence<sup>2</sup>
- 15 credits in GEOG, taken on the UW–Madison campus

2

GEOG courses designated Intermediate/Advanced are upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Cartography and GIS Major in consultation with the Geography undergraduate advisor.

## HONORS IN THE CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS MAJOR REQUIREMENTS

To earn Honors in the Major in Cartography and GIS, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all GEOG courses, and all courses accepted in the major
- Complete GEOG 578: GIS Applications with a grade of B or better
- Complete at least one advanced-level course OR 6 credits of honors credits in the major at the 300 level or above
- Complete a two-semester Senior Honors Thesis in GEOG 681 Senior Honors Thesis and GEOG 682 Senior Honors Thesis, a piece of original research composition, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS).
2. Skills in developing and implementing research plans.
3. Critical reasoning and analytical skills.
4. Communication skills - both written and oral.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 112	3	MATH 113	3
Communication A	3	Ethnic Studies	4
Foreign Language	4	Foreign Language	4
Humanities Breadth	3	Literature Breadth	3
Elective	2		
	<b>15</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
STAT 301	3	GEOG/CIV ENGR/ ENVR ST 377	4
GEOG 370	4	Communication B	4
INTER-LS 210	1	Biological Science Breadth	3
Literature Breadth	3	Elective	4
Elective	4		
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
GEOG 378	4	500-level Cartography/ GIS Elective	4
Major course: Human Geography	3-4	Biological Science Breadth	3
Electives	9	Humanities Breadth	3
		Major course: People- Environment Geography	3-4
	<b>16</b>		<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
GEOG/ENVR ST/ F&W ECOL/G L E/ GEOSCI/LAND ARC 371	3	500-level Cartography/ GIS Elective	4
Major course: Physical Geography	4	Electives	12
GEOG 565	3		
Electives	5		
	<b>15</b>		<b>16</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Cartography and GIS is a booming profession, but remains one of the biggest secrets on campus because of the limited treatment of geography in K-12 education. The Department of Labor reported that there were 425,000 US residents working in the geospatial industry (<http://www.esri.com/news/arcnews/summer12articles/strengthening-the-gis-profession.html>) in 2010, and the National Research Council estimates this could exceed 2 million by 2020. Cartography and GIS recently was rated the #1 profession in engineering, in part due to its extremely low unemployment rate (less than 1% of students with degrees!), strong future growth of the job market, and relatively low-stress rating. Our alumni work in local, national, and international government positions, as well as in private industry, including firms such as Apple, Google, Facebook, and Uber, and media outlets such as *National Geographic*, *The New York Times*, and *The Wall Street Journal*.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## GEOGRAPHY, B.A.

Are you passionate about environmental sustainability? Are you curious about what a socially just world might look like? Do you find physical landscapes inspiring? Are you interested in the analysis and visualization of data? Are you intrigued by the diversity of people and places around the world? Do you find the social life of cities fascinating? Are you kept up at night wondering why some places are rich while others are poor? If you answered “yes” to any of these questions, but especially more than one, Geography could be a great fit for you. Geography is especially ideal for individuals who have a wide range of interests spanning the natural sciences, humanities, social sciences, and data sciences.

Geography is an interdisciplinary field that seeks to understand patterns and interrelationships on Earth. These range from humans' relationships with the environment and the interactions of earth systems to the social worlds and built environments that different societies build to mapping and spatial analysis of big data. It is a rich and vibrant discipline that is essential to understanding the world and many of its problems. Geography thus offers a unique lens through which to illuminate the intertwined places, societies, and ecologies that comprise our diverse world.

## HOW TO GET IN

Exploring the field of geography at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses, each of which surveys one of the four major subareas that comprise the discipline: (1) human geography; (2) people–environment geography; (3) physical geography; (4) and cartography and geographic information science. The four intro classes are:

- GEOG 101 Introduction to Human Geography;
- GEOG/ENVIR ST 120 Introduction to the Earth System;
- GEOG/ENVIR ST 139 Global Environmental Issues; and
- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online).

Students who intend to declare their major in geography must schedule an appointment with the geography undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW–Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

## NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must declare one of the major options (p. 785) below, complete Core Requirements common to each option, and also the specific requirements for their declared option.

### CORE REQUIREMENTS

30 credits the major, to include these core requirements:

#### BREADTH

3 courses, 1 each from these areas:

Code	Title	Credits
<b>Human Geography (1 course)</b>		<b>3</b>
GEOG 101	Introduction to Human Geography	
GEOG 104	Introduction to Human Geography	
GEOG 300	Weird Geographies	
GEOG 301	Revolutions and Social Change	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ URB R PL 305	Introduction to the City	
GEOG 307	International Migration, Health, and Human Rights	
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context	
GEOG 342	Geography of Wisconsin	
GEOG 355	Africa, South of the Sahara	
GEOG 358	Human Geography of Southeast Asia	
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG 501	Space and Place: A Geography of Experience	

GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG 507	Waste Geographies: Politics, People, and Infrastructures
GEOG 510	Economic Geography
GEOG 511	Critical Social Theory
GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches
GEOG 518	Power, Place, Identity
GEOG 566	History of Geographic Thought

#### People–Environment (1 course) **3**

GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ENVIR ST 333	Green Urbanism
GEOG/ ENVIR ST 337	Nature, Power and Society
GEOG/ BOTANY 338	Environmental Biogeography
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 344	Changing Landscapes of the American West
GEOG/ AMER IND/ ENVIR ST 345	Managing Nature in Native North America
GEOG 359	Australia: Environment and Society
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development



GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
<b>Physical Geography (1 course) 3</b>	
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOG/ GEOSCI 320	Geomorphology
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment
GEOG 329	Landforms and Landscapes of North America
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
GEOG/ BOTANY 338	Environmental Biogeography
GEOG 342	Geography of Wisconsin
GEOG 344	Changing Landscapes of the American West
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change
GEOG/ SOIL SCI 525	Soil Geomorphology
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change

**Total Credits 9**

**CAPSTONE**

Code	Title	Credits
<b>Complete one of:</b>		
GEOG 565	Colloquium for Undergraduate Majors	<b>3-6</b>
GEOG 681 & GEOG 682	Senior Honors Thesis and Senior Honors Thesis	
GEOG 691 & GEOG 692	Senior Thesis and Senior Thesis	
<b>Total Credits 3-6</b>		

**MAJOR OPTIONS**

Declare one of these major options

View as listView as grid

- GEOGRAPHY: HUMAN GEOGRAPHY (P. 787)
- GEOGRAPHY: PEOPLE-ENVIRONMENT GEOGRAPHY (P. 788)
- GEOGRAPHY: PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES (P. 788)

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in GEOG and major courses
- 2.000 GPA on 15 upper-level credits, taken in residence<sup>1</sup>
- 15 credits in GEOG, taken on the UW-Madison campus

<sup>1</sup>

GEOG courses designated Intermediate/Advanced are upper level in this major.

**HONORS IN THE MAJOR**

Students may declare Honors in the Geography Major in consultation with the Geography undergraduate advisor.

**HONORS IN THE MAJOR REQUIREMENTS**

To earn a B.A. or B.S. with Honors in the Major in Geography students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all GEOG courses and major courses
- At least 1 Advanced level major course or 6 credits in major courses numbered 300 and higher, taken for Honors
- Complete a two-semester Senior Honors Thesis (GEOG 681 & GEOG 682) for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. A broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS).
2. Skills in developing and implementing research plans.
3. Critical reasoning and analytical skills.
4. Communication skills - both written and oral.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies (e.g., GEOG 305)	3
Quantitative Reasoning A		3 Quantitative Reasoning B	3
Foreign Language		4 Introductory GEOG	3
Biological Science Breadth		3 Foreign Language	4
Introductory GEOG		3-4 Literature Breadth	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Communication B (e.g., GEOG 101)		4 Humanities Breadth	3
Humanities Breadth		3 Social Science Breadth	3
Major course: Human Geography		3-4 Major course: Physical Geography	3
INTER-LS 210		1 Major course: People-Environment	3
Elective		3 Elective	3
	<b>14</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Social Science Breadth		3 Literature Breadth	3
Natural Science Breadth		3 Major course: Mapping	3-4
Humanities Breadth		3 GEOG 365	3
Intermediate-Level Geography in Subarea		3-4 Electives	6
STAT 301		3	
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
GEOG 565		3 Advanced-Level Geography Elective in Subarea	3-4
Intermediate-Level Geography Elective in Subarea		3-4 Electives	10
Electives		8	
	<b>15</b>		<b>14</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Given its interdisciplinary nature, Geography prepares students for employment in a wide variety of fields spanning the public, private, and nonprofit sectors, both domestically and abroad. Fields where geographers commonly find employment include, but are not limited to: ecological restoration; urban planning; economic development; human rights; corporate sustainability; immigration advocacy and refugee resettlement; environmental consulting; social movements and community organization; national security; data analysis and visualization; risk assessment; public health; journalism; diplomacy; transportation; sustainable agrifood systems. Moreover, geographers trained in Geographical Information Systems (GIS) and cartography are in high demand from governments, businesses, and nonprofits for their spatial data analysis and visualization skills.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications
<b>Total Credits</b>	<b>6-8</b>

**DEPTH**

Code	Title	Credits
<b>3 courses required</b>		
GEOG 300	Weird Geographies	<b>9-12</b>
GEOG 301	Revolutions and Social Change	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ URB R PL 305	Introduction to the City	<b>9-12</b>
GEOG 307	International Migration, Health, and Human Rights	
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	<b>9-12</b>
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	<b>9-12</b>
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context	<b>9-12</b>
GEOG 342	Geography of Wisconsin	
GEOG 355	Africa, South of the Sahara	<b>9-12</b>
GEOG 358	Human Geography of Southeast Asia	
GEOG 399	Independent Study (maximum 3 credits may apply)	<b>9-12</b>
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	<b>9-12</b>
GEOG 501	Space and Place: A Geography of Experience	
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies	<b>9-12</b>
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches	
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	<b>9-12</b>
GEOG 507	Waste Geographies: Politics, People, and Infrastructures	
GEOG 510	Economic Geography	<b>9-12</b>
GEOG 511	Critical Social Theory	
GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches	<b>9-12</b>
GEOG 518	Power, Place, Identity	
GEOG 566	History of Geographic Thought	<b>9-12</b>
GEOG 699	Directed Study (maximum 3 credits may apply)	
<b>Total Credits</b>		<b>9-12</b>

**PEOPLE**

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

**GEOGRAPHY: HUMAN GEOGRAPHY**

**REQUIREMENTS**

**HUMAN GEOGRAPHY OPTION REQUIREMENTS**

In addition to completing the Core Requirements for all options, complete these requirements specific to this option

**SKILLS, TECHNIQUES & METHODOLOGY**

Code	Title	Credits
<b>Field Methods</b>		
GEOG 365	Geographical Traditions and Practices	<b>3-4</b>
<b>Qualitative/Quantitative Methods (1 course)</b>		
GEOG 500	Qualitative Strategies in Geography	<b>3-4</b>
GEOG 560	Advanced Quantitative Methods	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Cartography/GIS (1 course)</b>		<b>3-4</b>
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	
GEOG 370	Introduction to Cartography	
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	

# GEOGRAPHY: PEOPLE-ENVIRONMENT GEOGRAPHY

## REQUIREMENTS

### PEOPLE-ENVIRONMENT GEOGRAPHY OPTION REQUIREMENTS

In addition to completing the requirements for all options, complete these requirements specific to this option

#### SKILLS, TECHNIQUES & METHODOLOGY

Code	Title	Credits
<b>Field Methods</b>		
GEOG 365	Geographical Traditions and Practices	
<b>Qualitative/Quantitative Methods (1 course)</b>		<b>3-4</b>
GEOG 500	Qualitative Strategies in Geography	
GEOG 560	Advanced Quantitative Methods	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Cartography/GIS (1 course)</b>		<b>3-4</b>
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	
GEOG 370	Introduction to Cartography	
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	
<b>Total Credits</b>		<b>6-8</b>

#### DEPTH

Code	Title	Credits
<b>3 courses required</b>		
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ENVIR ST 333	Green Urbanism	

GEOG/ ENVIR ST 337	Nature, Power and Society
GEOG/ BOTANY 338	Environmental Biogeography
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 344	Changing Landscapes of the American West
GEOG/ AMER IND/ ENVIR ST 345	Managing Nature in Native North America
GEOG 359	Australia: Environment and Society
GEOG 399	Independent Study (maximum 3 credits may apply)
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
GEOG 699	Directed Study (maximum 3 credits may apply)

**Total Credits**

**9-12**

# GEOGRAPHY: PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES

## REQUIREMENTS

### PHYSICAL GEOGRAPHY OPTION REQUIREMENTS

In addition to completing the requirements for all options, complete these requirements specific to this option

## SKILLS, TECHNIQUES & METHODOLOGY

Code	Title	Credits
<b>Quantitative Methodology (1 course)</b>		<b>3</b>
GEOG 560	Advanced Quantitative Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Core Cartography/GIS</b>		
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
<b>Second Cart/GIS or Field Methods Course(1 course)</b>		<b>3</b>
GEOG 370	Introduction to Cartography	
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
GEOG 378	Introduction to Geocomputing	
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	
GEOG 572	Graphic Design in Cartography	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	
GEOG 579	GIS and Spatial Analysis	
<b>Total Credits</b>		<b>10</b>

## DEPTH

Code	Title	Credits
<b>3 courses required</b>		<b>9-12</b>
GEOG/ GEOSCI 320	Geomorphology	
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG 342	Geography of Wisconsin	

GEOG 344	Changing Landscapes of the American West	
GEOG 399	Independent Study (maximum 3 credits may apply)	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG 523	Advanced Paleoecology: Species Responses to Past Environmental Change	
GEOG/ SOIL SCI 525	Soil Geomorphology	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
GEOG 699	Directed Study (maximum 3 credits may apply)	
<b>Total Credits</b>		<b>9-12</b>

## GEOGRAPHY, B.S.

Are you passionate about environmental sustainability? Are you curious about what a socially just world might look like? Do you find physical landscapes inspiring? Are you interested in the analysis and visualization of data? Are you intrigued by the diversity of people and places around the world? Do you find the social life of cities fascinating? Are you kept up at night wondering why some places are rich while others are poor? If you answered "yes" to any of these questions, but especially more than one, Geography could be a great fit for you. Geography is especially ideal for individuals who have a wide range of interests spanning the natural sciences, humanities, social sciences, and data sciences.

Geography is an interdisciplinary field that seeks to understand patterns and interrelationships on Earth. These range from humans' relationships with the environment and the interactions of earth systems to the social worlds and built environments that different societies build to mapping and spatial analysis of big data. It is a rich and vibrant discipline that is essential to understanding the world and many of its problems. Geography thus offers a unique lens through which to illuminate the intertwined places, societies, and ecologies that comprise our diverse world.

## HOW TO GET IN

Exploring the field of geography at UW–Madison is easy. Interested students are strongly encouraged to take introductory courses in the field. The Department of Geography offers four intro courses, each of which surveys one of the four major subareas that comprise the discipline: (1) human geography; (2) people–environment geography; (3) physical geography; (4) and cartography and geographic information science. The four intro classes are:

- GEOG 101 Introduction to Human Geography;
- GEOG/ENVIR ST 120 Introduction to the Earth System;
- GEOG/ENVIR ST 139 Global Environmental Issues; and
- GEOG 170 Our Digital Globe: An Overview of GIScience and its Technology (online).

Students who intend to declare their major in geography must schedule an appointment with the geography undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Students must declare one of the major options (p. 792) below, complete Core Requirements common to each option, and also the specific requirements for their declared option.

#### CORE REQUIREMENTS

30 credits the major, to include these core requirements:

##### BREADTH

3 courses, 1 each from these areas:

Code	Title	Credits
<b>Human Geography (1 course)</b>		<b>3</b>
GEOG 101	Introduction to Human Geography	
GEOG 104	Introduction to Human Geography	
GEOG 300	Weird Geographies	
GEOG 301	Revolutions and Social Change	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ URB R PL 305	Introduction to the City	
GEOG 307	International Migration, Health, and Human Rights	
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context	
GEOG 342	Geography of Wisconsin	
GEOG 355	Africa, South of the Sahara	

GEOG 358	Human Geography of Southeast Asia
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG 501	Space and Place: A Geography of Experience
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG 507	Waste Geographies: Politics, People, and Infrastructures
GEOG 510	Economic Geography
GEOG 511	Critical Social Theory
GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches
GEOG 518	Power, Place, Identity
GEOG 566	History of Geographic Thought
<b>People-Environment (1 course)</b>	<b>3</b>
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ENVIR ST 333	Green Urbanism
GEOG/ ENVIR ST 337	Nature, Power and Society
GEOG/ BOTANY 338	Environmental Biogeography
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 344	Changing Landscapes of the American West
GEOG/ AMER IND/ ENVIR ST 345	Managing Nature in Native North America
GEOG 359	Australia: Environment and Society
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape

GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEOG/ ENVIR ST 537	Culture and Environment
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
<b>Physical Geography (1 course)</b>	<b>3</b>
GEOG/ ENVIR ST 120	Introduction to the Earth System
GEOG/ ENVIR ST 127	Physical Systems of the Environment
GEOG/ GEOSCI 320	Geomorphology
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment
GEOG 329	Landforms and Landscapes of North America
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
GEOG/ BOTANY 338	Environmental Biogeography
GEOG 342	Geography of Wisconsin
GEOG 344	Changing Landscapes of the American West
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change
GEOG/ SOIL SCI 525	Soil Geomorphology
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change

**Total Credits** **9**

### CAPSTONE

Code	Title	Credits
<b>Complete one of:</b>		<b>3-6</b>
GEOG 565	Colloquium for Undergraduate Majors	
GEOG 681 & GEOG 682	Senior Honors Thesis and Senior Honors Thesis	

GEOG 691 Senior Thesis  
& GEOG 692 and Senior Thesis

**Total Credits****3-6**

## MAJOR OPTIONS

Declare one of these major options

View as listView as grid

- GEOGRAPHY: HUMAN GEOGRAPHY (P. 787)
- GEOGRAPHY: PEOPLE-ENVIRONMENT GEOGRAPHY (P. 788)
- GEOGRAPHY: PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES (P. 788)

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in GEOG and major courses
- 2.000 GPA on 15 upper-level credits, taken in residence <sup>1</sup>
- 15 credits in GEOG, taken on the UW–Madison campus

1

GEOG courses designated Intermediate/Advanced are upper level in this major.

## HONORS IN THE MAJOR

Students may declare Honors in the Geography Major in consultation with the Geography undergraduate advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn a B.A. or B.S. with Honors in the Major in Geography students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all GEOG courses and major courses
- At least 1 Advanced level major course *or* 6 credits in major courses numbered 300 and higher, taken for Honors
- Complete a two-semester Senior Honors Thesis (GEOG 681 & GEOG 682) for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. A broad spectrum of geographical knowledge and skills, as well as a degree of expertise in a specific sub-field of the discipline (Human, People-Environment, Physical, Cart/GIS).
2. Skills in developing and implementing research plans.
3. Critical reasoning and analytical skills.
4. Communication skills - both written and oral.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies (e.g., GEOG 305)	3
Quantitative Reasoning A		3 Quantitative Reasoning B	3
Foreign Language		4 Introductory GEOG	3
Biological Science Breadth		3 Foreign Language	4
Introductory GEOG		3-4 Literature Breadth	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Communication B (e.g., GEOG 101)		4 Humanities Breadth	3
Humanities Breadth		3 Social Science Breadth	3
Major course: Human Geography		3-4 Major course: Physical Geography	3
INTER-LS 210		1 Major course: People-Environment	3



Elective	3 Elective	3
<b>14</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring Credits</b>
Social Science Breadth	3 Literature Breadth	3
Natural Science Breadth	3 Major course: Mapping	3-4
Humanities Breadth	3 GEOG 365	3
Intermediate-Level Geography in Subarea	3-4 Electives	6
STAT 301	3	
<b>15</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring Credits</b>
GEOG 565	3 Advanced-Level Geography Elective in Subarea	3-4
Intermediate-Level Geography Elective in Subarea	3-4 Electives	10
Electives	8	
<b>15</b>		<b>14</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

Students with questions about the major, courses, and careers are encouraged to contact the geography undergraduate advisor, Joel Gruley, at [jgruley@wisc.edu](mailto:jgruley@wisc.edu).

### CAREERS

Given its interdisciplinary nature, Geography prepares students for employment in a wide variety of fields spanning the public, private, and nonprofit sectors, both domestically and abroad. Fields where geographers commonly find employment include, but are not limited to: ecological restoration; urban planning; economic development; human rights; corporate sustainability; immigration advocacy and refugee resettlement; environmental consulting; social movements and community organization; national security; data analysis and visualization; risk assessment; public health; journalism; diplomacy; transportation; sustainable agrifood systems. Moreover, geographers trained in Geographical Information Systems (GIS) and cartography are in high demand from governments, businesses, and nonprofits for their spatial data analysis and visualization skills.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Burt, Cadwallader, Cronon, Downey, Kaiser, Knox, Mason, Naughton, Olds, Ostergren, Turner, Williams, Zhu

Associate Professors Alatout, Dennis

Assistant Professors Baird, Gibbs, Marin-Spiotta, Ozdogan, Robertson, Roth, Schneider, Woodward, Young

## GEOGRAPHY: HUMAN GEOGRAPHY

### REQUIREMENTS

### HUMAN GEOGRAPHY OPTION REQUIREMENTS

In addition to completing the Core Requirements for all options, complete these requirements specific to this option

### SKILLS, TECHNIQUES & METHODOLOGY

Code	Title	Credits
<b>Field Methods</b>		
GEOG 365	Geographical Traditions and Practices	
<b>Qualitative/Quantitative Methods (1 course)</b>		<b>3-4</b>
GEOG 500	Qualitative Strategies in Geography	
GEOG 560	Advanced Quantitative Methods	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**Cartography/GIS (1 course) 3-4**

GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology
GEOG 370	Introduction to Cartography
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications

**Total Credits 6-8****DEPTH****Code Title Credits**  
**3 courses required 9-12**

GEOG 300	Weird Geographies
GEOG 301	Revolutions and Social Change
GEOG 302	Economic Geography: Locational Behavior
GEOG/ URB R PL 305	Introduction to the City
GEOG 307	International Migration, Health, and Human Rights
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement
GEOG 318	Introduction to Geopolitics
GEOG 340	World Regions in Global Context
GEOG 342	Geography of Wisconsin
GEOG 355	Africa, South of the Sahara
GEOG 358	Human Geography of Southeast Asia
GEOG 399	Independent Study (maximum 3 credits may apply)
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
GEOG 501	Space and Place: A Geography of Experience
GEOG/ URB R PL 503	Researching the City: Qualitative Strategies
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories
GEOG 507	Waste Geographies: Politics, People, and Infrastructures
GEOG 510	Economic Geography
GEOG 511	Critical Social Theory

GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches
GEOG 518	Power, Place, Identity
GEOG 566	History of Geographic Thought
GEOG 699	Directed Study (maximum 3 credits may apply)

**Total Credits 9-12****GEOGRAPHY: PEOPLE-ENVIRONMENT GEOGRAPHY****REQUIREMENTS****PEOPLE-ENVIRONMENT GEOGRAPHY OPTION REQUIREMENTS**

In addition to completing the requirements for all options, complete these requirements specific to this option

**SKILLS, TECHNIQUES & METHODOLOGY****Code Title Credits****Field Methods**

GEOG 365	Geographical Traditions and Practices
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**Qualitative/Quantitative Methods (1 course) 3-4**

GEOG 500	Qualitative Strategies in Geography
GEOG 560	Advanced Quantitative Methods
STAT 301	Introduction to Statistical Methods
STAT 324	Introductory Applied Statistics for Engineers
STAT 371	Introductory Applied Statistics for the Life Sciences

**Cartography/GIS (1 course) 3-4**

GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology
GEOG 370	Introduction to Cartography
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications

**Total Credits 6-8**

**DEPTH**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>3 courses required</b>		
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	<b>9-12</b>
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ENVIR ST 333	Green Urbanism	
GEOG/ ENVIR ST 337	Nature, Power and Society	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG/ ENVIR ST 339	Environmental Conservation	
GEOG 340	World Regions in Global Context	
GEOG 344	Changing Landscapes of the American West	
GEOG/ AMER IND/ ENVIR ST 345	Managing Nature in Native North America	
GEOG 359	Australia: Environment and Society	
GEOG 399	Independent Study (maximum 3 credits may apply)	
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	
GEOG/ ENVIR ST 537	Culture and Environment	
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	
GEOG 699	Directed Study (maximum 3 credits may apply)	
<b>Total Credits</b>		<b>9-12</b>

# GEOGRAPHY: PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES

**REQUIREMENTS****PHYSICAL GEOGRAPHY OPTION  
REQUIREMENTS**

In addition to completing the requirements for all options, complete these requirements specific to this option

**SKILLS, TECHNIQUES & METHODOLOGY**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Quantitative Methodology (1 course)</b>		<b>3</b>
GEOG 560	Advanced Quantitative Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Core Cartography/GIS</b>		
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	<b>4</b>
<b>Second Cart/GIS or Field Methods Course(1 course)</b>		<b>3</b>
GEOG 370	Introduction to Cartography	
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	
GEOG 378	Introduction to Geocomputing	
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	
GEOG 572	Graphic Design in Cartography	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 575	Interactive Cartography & Geovisualization	
GEOG 576	Geospatial Web and Mobile Programming	
GEOG 578	GIS Applications	
GEOG 579	GIS and Spatial Analysis	
<b>Total Credits</b>		<b>10</b>

## DEPTH

Code	Title	Credits
<b>3 courses required</b>		
GEOG/ GEOSCI 320	Geomorphology	<b>9-12</b>
GEOG/ ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment	
GEOG 329	Landforms and Landscapes of North America	
GEOG/ ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	
GEOG/ BOTANY 338	Environmental Biogeography	
GEOG 342	Geography of Wisconsin	
GEOG 344	Changing Landscapes of the American West	
GEOG 399	Independent Study (maximum 3 credits may apply)	
GEOG/ GEOSCI 420	Glacial and Pleistocene Geology	
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change	
GEOG/ SOIL SCI 525	Soil Geomorphology	
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	
GEOG/ ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	
GEOG 699	Directed Study (maximum 3 credits may apply)	
<b>Total Credits</b>		<b>9-12</b>

## GEOSCIENCE

The interdisciplinary department of Geoscience offers an undergraduate degree in geology and geophysics, with graduate degrees offered in both disciplines.

The Geology and Geophysics major offers unusual opportunities to integrate knowledge and technology from chemistry, biology, physics, engineering, space science, and other disciplines to understand processes that have shaped the Earth, its environments, and the life that it has sustained over billions of years. Geoscientists provide insight on surface and ground water resources and how to protect and preserve them. They probe the causes and potential risks associated with natural hazards including earthquakes, volcanoes, floods, hurricanes, landslides, climate change, and sea level rise. Sustainable exploration and extraction of key mineral resources needed to build and power a resilient and green society depends on well-trained geoscientists. To explore Earth history,

develop materials and energy resources, and to take the pulse of a dynamic planet, geoscientists use an extraordinary array of tools including satellites to measure changes of Earth's surface, sensitive instruments to detect seismic waves for exploring resources underground, cutting-edge instrumentation to measure the composition of minerals and rocks at microscopic scales, and computational approaches to assemble and interrogate enormous sets of data acquired from rocks and fossils across the globe.

Geology students have a strong interest in the natural environment as it is today and as it has developed over the past 4.5 billion years. The department of Geoscience challenges students to develop skills in sequential thought, inductive reasoning, and three-dimensional perception. Moreover, students who concentrate in geophysics learn basic physical laws and processes involving gravity, magnetism, heat flow, and seismic wave propagation within Earth. Opportunities also include learning how satellite-based measurements, and computational approaches, are used to measure and monitor geothermal resources, volcanic activity, earthquakes, and groundwater movement.

Geology and Geophysics students prepare for careers in hydrogeology, energy, mining, engineering, and education. Students are exceptionally well-prepared for graduate studies in a broad array of geoscience fields.

## CAREERS

More than half of all professional geologists and geophysicists work in hydrogeology, engineering geology, technical consulting, mining, or energy resource industries. The need for energy, environmental protection, and responsible land and resource management is expected to spur future demand for geoscientists. Geoscientists will be involved in discovering and developing next generation energy and mineral resources\*. Such careers involve an unusual breadth of training and personal adaptability, and the M.S. degree is generally required. About one fifth of all geoscientists work in state and federal geological surveys or research activities. These positions largely involve problems in geologic mapping, mineral resources, groundwater, and engineering. Geophysics offers opportunities in earthquake studies, seismic verification of nuclear test bans, and rock characterization techniques for waste disposal and groundwater modeling. Many geology students continue on to obtain a Ph.D. degree and become faculty members at colleges or universities. A geology and geophysics major is also appropriate for those interested in careers in elementary or secondary education, environmental policy, or environmental law. Faculty advisors can provide additional information on career opportunities.

\*US Bureau of Labor Statistics, November, 2022 ([http://guide.wisc.edu/undergraduate/letters-science/geoscience/file:///C:/Users/ljtheo/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/EZH4LLMB/Vy%20Le%20\(left\)%20and%20Collin%20Sutton%20\(right\)%20completed%20imaging%20experiments%20in%20May%202022%20in%20the%20University%20of%20Wisconsin-Madison%20Small%20Animal%20Imaging%20and%20Radiotherapy%20Facility%20\(SAIRF\).%20Imaging%20experiments%20are%20used%20to%20quantify%20in%20situ%20flow%20and%20transport%20processes%20in%20rocks%20and%20packed%20columns/](http://guide.wisc.edu/undergraduate/letters-science/geoscience/file:///C:/Users/ljtheo/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/EZH4LLMB/Vy%20Le%20(left)%20and%20Collin%20Sutton%20(right)%20completed%20imaging%20experiments%20in%20May%202022%20in%20the%20University%20of%20Wisconsin-Madison%20Small%20Animal%20Imaging%20and%20Radiotherapy%20Facility%20(SAIRF).%20Imaging%20experiments%20are%20used%20to%20quantify%20in%20situ%20flow%20and%20transport%20processes%20in%20rocks%20and%20packed%20columns/))

The College of Letters & Science encourages majors to begin working on their career exploration and preparation soon after arriving on campus. Our department partners with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to their success.

## PREPARATION FOR GRADUATE STUDY

An advanced degree is normally required for professional activity in geological and geophysical sciences; the student who contemplates such a degree should satisfy both department and graduate school requirements for admission to graduate study.

Minimum requirements for admission to graduate work in geology or geophysics at most universities in the United States, including the University of Wisconsin–Madison, are:

1. A bachelor's degree in geology/geophysics or a related science
2. One year of college chemistry (one year high school plus CHEM 109 Advanced General Chemistry recommended)
3. One year of college physics (PHYSICS 207 General Physics–PHYSICS 208 General Physics recommended)
4. One year of calculus (MATH 221 Calculus and Analytic Geometry 1–MATH 222 Calculus and Analytic Geometry 2 recommended)
5. A summer field-mapping course equivalent to GEOSCI 459 Field Geology (Park City, Utah)

## DEGREES/MAJORS/CERTIFICATES

- Geology and Geophysics, B.A. (p. 797)
- Geology and Geophysics, B.S. (p. 801)

## PEOPLE

Professors Dutton, Feigl, Goodwin, Kelly, Meyers, Peters, Roden, Singer, Tikoff, Xu

Associate Professors Cardiff, Ferrier, Marcott, Zoet

Assistant Professors Bauer, Bonamici, Golos, Haseloff, Zahasky

## GEOLOGY AND GEOPHYSICS, B.A.

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## HOW TO GET IN

To declare a major, students should meet with the undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Prospective majors are strongly encouraged to seek assistance from a faculty advisor in order to choose courses appropriate to their interests and career plans. Advisors can also assist students in choosing a track that is appropriate for their interests and career goals.

### BACKGROUND REQUIREMENTS

Code	Title	Credits
<b>Calculus (complete one sequence):</b>		<b>9-14</b>
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2 (recommended)	
MATH 211 & MATH 222	Calculus and Calculus and Analytic Geometry 2	
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
<b>Chemistry (complete one sequence)</b>		<b>5-10</b>
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Physics (complete one sequence):</b>		<b>10-11</b>
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 247 & PHYSICS 248	A Modern Introduction to Physics and A Modern Introduction to Physics	
<i>Geophysics and Engineering Geology Track option (complete all):</i>		
E M A 201 & E M A 202	Statics and Dynamics	
PHYSICS 208	General Physics	
	or PHYSICS 202 General Physics	
	or PHYSICS 248A Modern Introduction to Physics	
<b>Total Credits</b>		<b>24-35</b>

### GEOLOGY & GEOPHYSICS CORE COURSE WORK

Code	Title	Credits
<b>Complete all of the following:</b>		
GEOSCI 100	Introductory Geology: How the Earth Works	3
or GEOSCI/ ENVIR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3
<b>Total Credits</b>		<b>17</b>

### GEOLOGY & GEOPHYSICS TRACKS

Complete one of the following:

**Geology Track**

Code	Title	Credits
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 375	Principles of Geochemistry	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 455	Structural Geology	4
4 credits of GEOSCI 300-699 <sup>1</sup>		4
<b>Total Credits</b>		<b>17</b>

1

Except GEOSCI 331.

**Geophysics and Engineering Geology Track**

Code	Title	Credits
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4
GEOSCI/G L E 474	Rock Mechanics	3
or GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	
GEOSCI/G L E 594	Introduction to Applied Geophysics	3
GEOSCI/G L E 595	Field Methods in Applied and Engineering Geophysics	1
GEOSCI/G L E 627	Hydrogeology	3-4
or GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
or PHYSICS 311	Mechanics	
or PHYSICS 322	Electromagnetic Fields	
MATH 234	Calculus--Functions of Several Variables	3-4
or MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
<b>Total Credits</b>		<b>21-23</b>

**Environmental Geoscience Track**

Code	Title	Credits
GEOSCI/GEOG 320	Geomorphology	3-4
or GEOSCI/ GEOG 420	Glacial and Pleistocene Geology	
or GEOSCI 430	Sedimentology and Stratigraphy	
or GEOSCI/ G L E 627	Hydrogeology	
GEOSCI 375	Principles of Geochemistry	3
or GEOSCI 610	Geochronology, Timescales, and Rates of Geologic Processes	
or GEOSCI/ G L E 629	Contaminant Hydrogeology	
GEOSCI 304	Geobiology	3
or GEOSCI/ ZOOLOGY 541	Paleobiology	
or GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	

GEOSCI/ ENVIR ST 411	Energy Resources	3-4
or GEOSCI/ G L E 455	Structural Geology	
or GEOSCI 515	Principles of Economic Geology	
or GEOSCI/ G L E 594	Introduction to Applied Geophysics	
Electives		3-5
<b>Total Credits</b>		<b>17-19</b>

1

Except GEOSCI 331.

**General Geology Track**

Code	Title	Credits
Any GEOSCI 300-699 <sup>1</sup>		17
<b>Total Credits</b>		<b>17</b>

1

Except GEOSCI 331.

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all GEOSCI and major courses
- 2.000 on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in GEOSCI, taken on campus

1

GEOSCI 300-699, excluding GEOSCI 331, are considered Upper Level in the Major

**HONORS IN THE MAJOR**

Students may declare Honors in the Geology and Geophysics Major in consultation with the departmental undergraduate advisor.

**HONORS IN THE MAJOR IN GEOLOGY AND GEOPHYSICS: REQUIREMENTS**

To earn Honors in the Geology and Geophysics Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA in all GEOSCI and major courses
- Complete GEOSCI 681 and GEOSCI 682, for a total of 6 credits, with a grade of B or better.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire quantitative and spatial reasoning skills and the ability to apply those skills to problems in geoscience.
2. Be able to explicate key biological, chemical and physical Earth structures, processes, the interactions between them, and the roles that they play in determining the state of the Earth system.
3. Utilize geological observations and measurements to solve problems involving the timing of geological events in Earth history.
4. Combine data and lab/field-based observations into a novel synthesis and/or description/model of how Earth systems operate.
5. Be able to critique published scientific data, results, and interpretations thereof, as well as identify and assess related work in the scientific literature.
6. Be able to effectively communicate scientific concepts, methods, and results.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (Quantitative Reasoning B)	5	MATH 222	4
GEOSCI 100 or 106	3	PHYSICS 207 or 201	5
L&S Breadth	3	Ethnic Studies (take within first 60 credits)	3
Foreign Language	4	Comm A (take during first year)	3
<b>15</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
PHYSICS 208 or 202	5	GEOSCI/G L E 370	3
GEOSCI 202	4	GEOSCI 204	4

GEOSCI/G L E 360	3	L&S Breadth	3
Comm B	3	CHEM 103	4
		Elective	2
<b>15</b>		<b>16</b>	

#### Third Year

Fall	Credits	Spring	Credits
CHEM 104	5	L&S Breadth	3
L&S Breadth	3	GEOSCI Elective 300 level and above	3
L&S Breadth	3	L&S Breadth	3
GEOSCI Elective 300 level and above	4	Elective	3
		GEOSCI Elective 300 level and above	3
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
GEOSCI elective 300 level and above	4	GEOSCI elective 300 level and above	4
GEOSCI elective 300 level and above	3	L&S Breadth	3
Elective	5	Elective	4
L&S Breadth	3	L&S Breadth	3
<b>15</b>		<b>14</b>	

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

**Sabrina Manero, Undergraduate advisor (general advising)**

smanero@wisc.edu  
230 Weeks Hall

**Annie Bauer, Undergraduate advisor in the major: geochemistry, geochronology, tectonic processes**

annie.bauer@wisc.edu (<http://guide.wisc.edu/undergraduate/letters-science/geoscience/geology-geophysics-ba/annie.bauer@wisc.edu>)  
329 Weeks Hall

**Shanan Peters, Undergraduate advisor in the major: paleontology, sedimentology and stratigraphy**

peters@geology.wisc.edu (<http://guide.wisc.edu/undergraduate/letters-science/geoscience/geology-geophysics-ba/peters@geology.wisc.edu>)  
495 Weeks Hall

**Eric Roden, Undergraduate advisor in the major: biogeochemistry, geomicrobiology**

erode@geology.wisc.edu (<http://guide.wisc.edu/undergraduate/letters-science/geoscience/geology-geophysics-ba/erode@geology.wisc.edu>)  
A348 Weeks Hall

**Basil Tikoff, Undergraduate advisor in the major: structural geology**

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**Huifang Xu, Undergraduate advisor in the major: mineral science, nanogeoscience, and electron microscopy**



hfxu@geology.wisc.edu  
A352 Weeks Hall

## CAREERS

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## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)

- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

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Associate Professors Cardiff, Ferrier, Marcott, Zoet

Assistant Professors Bauer, Bonamici, Golos, Haseloff, Zahasky

## GEOLOGY AND GEOPHYSICS, B.S.

The interdisciplinary department of Geoscience offers an undergraduate degree in geology and geophysics, with graduate degrees offered in both disciplines.

The Geology and Geophysics major offers unusual opportunities to integrate knowledge and technology from chemistry, biology, physics, engineering, space science, and other disciplines to understand processes that have shaped the Earth, its environments, and the life that it has sustained over billions of years. Geoscientists provide insight on surface and ground water resources and how to protect and preserve them. They probe the causes and potential risks associated with natural hazards including earthquakes, volcanoes, floods, hurricanes, landslides, climate change, and sea level rise. Sustainable exploration and extraction of key mineral resources needed to build and power a resilient and green society depends on well-trained geoscientists. To explore Earth history, develop materials and energy resources, and to take the pulse of a dynamic planet, geoscientists use an extraordinary array of tools including satellites to measure changes of Earth's surface, sensitive instruments to detect seismic waves for exploring resources underground, cutting-edge instrumentation to measure the composition of minerals and rocks at microscopic scales, and computational approaches to assemble and interrogate enormous sets of data acquired from rocks and fossils across the globe.

Geology students have a strong interest in the natural environment as it is today and as it has developed over the past 4.5 billion years. The department of Geoscience challenges students to develop skills in sequential thought, inductive reasoning, and three-dimensional perception. Moreover, students who concentrate in geophysics learn basic physical laws and processes involving gravity, magnetism, heat flow, and seismic wave propagation within Earth. Opportunities also include learning how satellite-based measurements, and computational

approaches, are used to measure and monitor geothermal resources, volcanic activity, earthquakes, and groundwater movement.

Geology and Geophysics students prepare for careers in hydrogeology, energy, mining, engineering, and education. Students are exceptionally well-prepared for graduate studies in a broad array of geoscience fields.

## HOW TO GET IN

To declare a major, students should meet with the undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

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|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Prospective majors are strongly encouraged to seek assistance from a faculty advisor in order to choose courses appropriate to their interests and career plans. Advisors can also assist students in choosing a track that is appropriate for their interests and career goals.

#### BACKGROUND REQUIREMENTS

Code	Title	Credits
<b>Calculus (complete one sequence):</b>		<b>9-14</b>
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2 (recommended)	
MATH 211 & MATH 222	Calculus and Calculus and Analytic Geometry 2	
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	
<b>Chemistry (complete one sequence)</b>		<b>5-10</b>
CHEM 109	Advanced General Chemistry	
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	

**Physics (complete one sequence): 10-11**

PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 247 & PHYSICS 248	A Modern Introduction to Physics and A Modern Introduction to Physics	

*Geophysics and Engineering Geology Track option (complete all):*

E M A 201 & E M A 202	Statics and Dynamics	
PHYSICS 208	General Physics	
	or PHYSICS 202 General Physics	
	or PHYSICS 248A Modern Introduction to Physics	

**Total Credits 24-35**

**GEOLOGY & GEOPHYSICS CORE COURSE WORK**

Code	Title	Credits
<b>Complete all of the following:</b>		
GEOSCI 100	Introductory Geology: How the Earth Works	3
or GEOSCI/ ENVIR ST 106	Environmental Geology	
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI/G L E 360	Principles of Mineralogy	3
GEOSCI/G L E 370	Elementary Petrology	3

**Total Credits 17**

**GEOLOGY & GEOPHYSICS TRACKS**

Complete one of the following:

**Geology Track**

Code	Title	Credits
GEOSCI/G L E 350	Introduction to Geophysics: The Dynamic Earth	3
GEOSCI 375	Principles of Geochemistry	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 455	Structural Geology	4
4 credits of GEOSCI 300-699 <sup>1</sup>		4

**Total Credits 17**

<sup>1</sup> Except GEOSCI 331.

**Geophysics and Engineering Geology Track**

Code	Title	Credits
GEOSCI/G L E 431	Sedimentary & Stratigraphy Lab	1
GEOSCI/G L E 455	Structural Geology	4
GEOSCI/G L E 474	Rock Mechanics	3
or GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	
GEOSCI/G L E 594	Introduction to Applied Geophysics	3

GEOSCI/G L E 595	Field Methods in Applied and Engineering Geophysics	1
GEOSCI/G L E 627	Hydrogeology	3-4
or GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	
E M A 303	Mechanics of Materials	3
or M E 306	Mechanics of Materials	
or PHYSICS 311	Mechanics	
or PHYSICS 322	Electromagnetic Fields	
MATH 234	Calculus--Functions of Several Variables	3-4
or MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	

**Total Credits 21-23**

**Environmental Geoscience Track**

Code	Title	Credits
GEOSCI/GEOG 320	Geomorphology	3-4
or GEOSCI/ GEOG 420	Glacial and Pleistocene Geology	
or GEOSCI 430	Sedimentology and Stratigraphy	
or GEOSCI/ G L E 627	Hydrogeology	
GEOSCI 375	Principles of Geochemistry	3
or GEOSCI 610	Geochronology, Timescales, and Rates of Geologic Processes	
or GEOSCI/ G L E 629	Contaminant Hydrogeology	
GEOSCI 304	Geobiology	3
or GEOSCI/ ZOOLOGY 541	Paleobiology	
or GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	
GEOSCI/ ENVIR ST 411	Energy Resources	3-4
or GEOSCI/ G L E 455	Structural Geology	
or GEOSCI 515	Principles of Economic Geology	
or GEOSCI/ G L E 594	Introduction to Applied Geophysics	

Electives 3-5

**Total Credits 17-19**

<sup>1</sup> Except GEOSCI 331.

**General Geology Track**

Code	Title	Credits
Any GEOSCI 300-699 <sup>1</sup>		17

**Total Credits 17**

<sup>1</sup> Except GEOSCI 331.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all GEOSCI and major courses
- 2.000 on 15 upper-level major credits, taken in residence<sup>1</sup>
- 15 credits in GEOSCI, taken on campus

1

GEOSCI 300-699, excluding GEOSCI 331, are considered Upper Level in the Major

## HONORS IN THE MAJOR

Students may declare Honors in the Geology and Geophysics Major in consultation with the departmental undergraduate advisor.

## HONORS IN THE MAJOR IN GEOLOGY AND GEOPHYSICS: REQUIREMENTS

To earn Honors in the Geology and Geophysics Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA in all GEOSCI and major courses
- Complete GEOSCI 681 and GEOSCI 682, for a total of 6 credits, with a grade of B or better.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Acquire quantitative and spatial reasoning skills and the ability to apply those skills to problems in geoscience.
2. Be able to explicate key biological, chemical and physical Earth structures, processes, the interactions between them, and the roles that they play in determining the state of the Earth system.
3. Utilize geological observations and measurements to solve problems involving the timing of geological events in Earth history.
4. Combine data and lab/field-based observations into a novel synthesis and/or description/model of how Earth systems operate.

5. Be able to critique published scientific data, results, and interpretations thereof, as well as identify and assess related work in the scientific literature.
6. Be able to effectively communicate scientific concepts, methods, and results.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
MATH 221 (Quantitative Reasoning B)		5 MATH 222	4
GEOSCI 100 or 106		3 PHYSICS 207 or 201	5
L&S Breadth		3 Ethnic Studies (take within first 60 credits)	3
Foreign Language		4 Comm A (take during first year)	3
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
PHYSICS 208 or 202		5 GEOSCI/G L E 370	3
GEOSCI 202		4 GEOSCI 204	4
GEOSCI/G L E 360		3 L&S Breadth	3
Comm B		3 CHEM 103	4
		Elective	2
	<b>15</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
CHEM 104		5 L&S Breadth	3
L&S Breadth		3 GEOSCI Elective 300 level and above	3
L&S Breadth		3 L&S Breadth	3
GEOSCI Elective 300 level and above		4 Elective	3
		GEOSCI Elective 300 level and above	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
GEOSCI elective 300 level and above		4 GEOSCI elective 300 level and above	4
GEOSCI elective 300 level and above		3 L&S Breadth	3
Elective		5 Elective	4

L&S Breadth	3 L&S Breadth	3
	<b>15</b>	<b>14</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

**Sabrina Manero, Undergraduate advisor (general advising)**

smanero@wisc.edu  
230 Weeks Hall

**Annie Bauer, Undergraduate advisor in the major: geochemistry, geochronology, tectonic processes**

annie.bauer@wisc.edu (<http://guide.wisc.edu/undergraduate/letters-science/geoscience/geology-geophysics-bs/annie.bauer@wisc.edu>)  
329 Weeks Hall

**Shanan Peters, Undergraduate advisor in the major: paleontology, sedimentology and stratigraphy**

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495 Weeks Hall

**Eric Roden, Undergraduate advisor in the major: biogeochemistry, geomicrobiology**

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A348 Weeks Hall

**Basil Tikoff, Undergraduate advisor in the major: structural geology**

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**Huifang Xu, Undergraduate advisor in the major: mineral science, nanogeoscience, and electron microscopy**

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A352 Weeks Hall

### CAREERS

More than half of all professional geologists and geophysicists work in hydrogeology, engineering geology, technical consulting, mining, or energy resource industries. The need for energy, environmental protection, and responsible land and resource management is expected to spur future demand for geoscientists. Geoscientists will be involved in discovering and developing next generation energy and mineral resources\*. Such careers involve an unusual breadth of training and personal adaptability, and the M.S. degree is generally required. About one fifth of all geoscientists work in state and federal geological surveys or research activities. These positions largely involve problems in geologic mapping, mineral resources, groundwater, and engineering. Geophysics offers opportunities in earthquake studies, seismic verification of nuclear test bans, and rock characterization techniques for waste disposal and groundwater modeling. Many geology students continue on to obtain a Ph.D. degree and become faculty members at colleges or universities. A geology and geophysics major is also appropriate for those interested in careers in elementary or secondary education, environmental policy, or environmental law. Faculty advisors can provide additional information on career opportunities.

\*US Bureau of Labor Statistics, November, 2022 (<http://guide.wisc.edu/undergraduate/letters-science/geoscience/geology-geophysics-bs/>)

file:///C:/Users/ljtheo/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/EZH4LLMB/Vy%20Le%20(left)%20and%20Collin%20Sutton%20(right)%20completed%20imaging%20experiments%20in%20May%202022%20in%20the%20University%20of%20Wisconsin-Madison%20Small%20Animal%20Imaging%20and%20Radiotherapy%20Facility%20(SAIRF).%20Imaging%20experiments%20are%20used%20to%20quantify%20in%20situ%20flow%20and%20transport%20processes%20in%20rocks%20and%20packed%20columns/)

The College of Letters & Science encourages majors to begin working on their career exploration and preparation soon after arriving on campus. Our department partners with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important that students are career ready at the time of graduation, and we are committed to their success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

Professors Dutton, Feigl, Goodwin, Kelly, Meyers, Peters, Roden, Singer, Tikoff, Xu

Associate Professors Cardiff, Ferrier, Marcott, Zoet

Assistant Professors Bauer, Bonamici, Golos, Haseloff, Zahasky

## GERMAN, NORDIC, AND SLAVIC

The Department of German, Nordic, and Slavic is home to undergraduate and graduate programs in German (p. 806), Scandinavian Studies (p. 806), Russian (p. 806), and Polish (p. 806), as well as certificates in the Folklore program (p. 807) and East Central European Languages, Literatures, and Cultures (p. 806). The department offers courses in the languages, linguistics, literatures, and cultures of these areas, both in the target languages and in translation. GNS provides instruction in more than a dozen languages, including Czech, Danish, Dutch, Finnish, German, Icelandic, Kazakh, Norwegian, Old Norse, Polish, Russian, Sami, Swedish, Turkish, Ukrainian, and Yiddish.

### GERMAN PROGRAM

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies and are playing an increasingly important role in world affairs. More Americans claim German ethnicity than any other, and German-speaking immigrants and their descendants have had an enduring impact on the history and culture of the United States. UW–Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

Knowledge of Dutch provides access to a culture that has been an important force in world history since the Middle Ages. The language of more than 20 million inhabitants of the Netherlands and Flanders (Dutch-speaking Belgium), Dutch is also spoken in Suriname and the Netherlands Antilles. It is also an important second language in Indonesia. As major economic powers, Belgium and the Netherlands play a leading role in shaping the European Union. World-class research in the sciences and humanities is conducted at Dutch and Belgian universities, and both countries can boast of a cultural life in which art, music, and theater are all flourishing.

### OPPORTUNITIES FOR GERMAN AND DUTCH STUDENTS

In addition to choosing from courses in culture, literature, linguistics, and German-American studies, German students can practice the language in various settings on campus, including the Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch/>) Language House, which is located in Adams Hall. Other opportunities include the German Club, Kaffeestunde, and Stammtisch. There is also a Dutch Table for students of Dutch. Many German and Dutch students participate on semester- or year-long study abroad programs in Germany, Austria, and the Netherlands administered through International Academic Programs (<http://www.studyabroad.wisc.edu/>), the School of Business, the College of Engineering, and the College of Agriculture and Life Sciences. The International Internship Program ([\[internships.international.wisc.edu/\]\(http://internships.international.wisc.edu/\)\) also connects UW–Madison students to a wide range of internships in German- and Dutch-speaking Europe.](http://</a></p>
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### SCANDINAVIAN STUDIES (NORDIC)

The Scandinavian Studies Program provides the opportunity to learn a Scandinavian language or Finnish (modern Icelandic only occasionally). The literature, folklore, and culture of the Nordic countries are taught both in the original languages and in English translation. Partly in cooperation with other departments, courses in Scandinavian area studies are offered (history, social institutions, geography, art, archaeology). Students who major in the field may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available. Students who transfer to this university after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

### RUSSIAN

Courses in Russian are designed to meet the needs of students who begin to study the language in college as well as those who began to study the language in high school. With a major in Russian you will be able to converse with ease in most common situations at work, school, social events, and everyday duties, as well as read and write at an advanced level.

### RUSSIAN FLAGSHIP PROGRAM

The Russian Flagship Program offers students of any major the opportunity to achieve a professional level of competence in Russian. Students apply to the program directly. Residential and study abroad requirements, course options, and scholarship information are posted at Russian Flagship (<http://www.russianflagship.wisc.edu/>). To obtain more information about the Russian Flagship Program, students should make an appointment with a Russian Flagship advisor. (<https://russianflagship.wisc.edu/advising/>)

### POLISH

Polish is the most commonly spoken Slavic language of the European Union and the second largest Slavic language in the world, with over 50 million users across the globe. Polish culture has a remarkably rich tradition, shaped by a millennium of artistic and intellectual innovation as well as struggles for political, social, and cultural independence. Poland survived the two world wars and half a century of communist rule to emerge as a regional leader in East-Central Europe, the fastest-growing economy in the EU, and home to one of the most vibrant cultural scenes in the world. Polish diaspora counts among the largest in the world with major concentrations in the US, Canada, the UK, Germany, and France.

### ECELLC CERTIFICATE

Explore the crossroads of Europe with courses designed to give you the linguistic-cultural skills for successful academic, business, political, diplomatic, and analytical careers centered on the continent's most economically dynamic, strategically important, and culturally rich region. Discover the world that has survived the horrors of two world wars, given birth to some of the most powerful dissident movements in modern

history, and inspired the world with its art, film, literature, and political thought.

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## FOLKLORE CERTIFICATE

The Folklore Certificate provides opportunities to explore the importance of everyday expressive culture – such as storytelling, sacred traditions, art, music, foodways, and festivals – to better appreciate human diversity, as well as understand the challenges of living together as local community members and citizens of the world. Students will gain fresh perspectives on race, ethnicity, gender, sexuality, and class. They will come to recognize the artfulness in everyday life and community-based creativity in a global economy. Students will learn to navigate cultural communication and conflict within and across religious, geographic, and ethnic divides.

Folklore courses are taught partly in cooperation with other departments and are cross-listed with classes in Gender and Women's Studies, Anthropology Religious Studies, Art, Communications, Dance, African American Studies, Scandinavian Studies, and many others.

Students who earn a certificate in the field may work in museums, the business sector, archives, publishing, or many other areas.

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## DEGREES/MAJORS/CERTIFICATES

- East Central European Languages, Literatures, and Cultures, Certificate (p. 808)
- Folklore, Certificate (p. 810)
- German, B.A. (p. 812)
- German, B.S. (p. 817)
- German, Certificate (p. 822)
- Languages and Cultures of Northern Europe, Certificate (p. 824)
- Polish, B.A. (p. 826)
- Polish, B.S. (p. 830)
- Russian, B.A. (p. 834)
- Russian, B.S. (p. 837)
- Scandinavian Studies, B.A. (p. 841)
- Scandinavian Studies, B.S. (p. 845)
- Scandinavian Studies, Certificate (p. 849)
- Slavic Studies, Certificate (p. 852)

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## PEOPLE

### GERMAN PROFESSORS

Monika Chavez  
Sabine Gross  
Sonja Klocke  
Mark Loudén\*  
B. Venkat Mani  
Pamela Potter  
Jolanda Vanderwal Taylor

### ASSOCIATE PROFESSORS

Salvatore Calomino

Sonja Klocke  
Sabine Möedersheim

### ASSISTANT PROFESSORS

Hannah V. Eldridge  
Julia Goetze  
Katerina Somers  
Adam Stern  
Sunny Yudkoff

### TEACHING FACULTY

Julie Larson-Guenette  
Jeanne Schueller

### LECTURER

Melissa Sheedy

*\*Unit Head*

## SCANDINAVIAN STUDIES (NORDIC) PROFESSOR

Susan Brantly  
Thomas DuBois  
Kirsten Wolf\*

### ASSOCIATE PROFESSOR

Dean Krouk

### ASSISTANT PROFESSOR

Claus Andersen  
Benjamin Mier-Cruz  
Liina-Ly Roos

### TEACHING FACULTY

B. Marcus Cederström  
Scott A. Mellor

### LECTURER

Ida Moen Johnson  
Helen Durst

### ASSOCIATE LECTURER

Todd Michelson-Ambelang

*\* unit head*

## SLAVIC STUDIES RUSSIAN PROFESSORS

David Danaher\*  
Karen Evans-Romaine  
Irina Shevelenko

### ASSOCIATE PROFESSORS

Andrew Reynolds

### ASSISTANT PROFESSORS

Maksim Hanukai

Kirill Ospovat  
Marina Zilbergerts

## TEACHING FACULTY

Jennifer Tishler  
Anna Tumarkin

## LECTURERS

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Alexandra Walter

*\*unit head*

## POLISH ASSISTANT PROFESSOR

Łukasz Wodzyński

## SENIOR LECTURER

Ewa Miernowska

## LECTURER

Krzysztof Borowski

## PROFESSOR EMERIT

Halina Filipowicz

## CZECH PROFESSOR

David Danaher\*

*\*unit head*

## OTHER LANGUAGES

Nâlân Erbil - Turkish, Faculty Associate

Gulnara Glowacki - Kazakh, Senior lecturer

Oksana Stoychuk - Ukrainian

## FOLKLORE PROGRAM

### FOLKLORE COURSE TEACHING CORE:

Lowell Brower, Lecturer, Teaching Faculty; German, Nordic and Slavic  
B. Marcus Cederström, Teaching Faculty; German, Nordic and Slavic  
Langston Collin Wilkins, Assistant Professor, German, Nordic, and Slavic  
and African American Studies

Thomas DuBois, Professor; German, Nordic and Slavic  
Christine Garlough\*, Professor; Gender and Women's Studies  
Nathan Gibson, Audio-Visual Preservation Archivist, UW-Madison General  
Library System  
Janet Gilmore, Professor; Planning and Landscape Architecture  
Jennifer Gipson, Assistant Professor; French and Italian  
Scott Mellor, Faculty Associate; German, Nordic and Slavic  
Anna Rue, Assistant Faculty Associate; Center for the Study of Upper  
Midwestern Cultures

### FOLKLORE CROSS-LISTED COURSE TEACHING CORE:

Matthew H. Brown, Assistant Professor; African Cultural Studies  
Jerome Camal, Associate Professor, Anthropology  
Nadia Chana, Assistant Professor; Music: Ethnomusicology

Peggy Choy, Associate Professor; Dance  
Susan Cook, Professor, School of Music  
Laurie Beth Clark, Professor, Art and Interdisciplinary Theatre Studies  
Mary Hoefflerle, Faculty Associate, Art  
Rob Howard, Professor; Communication Arts  
Evelyn Howell, Professor, Department of Planning and Landscape  
Architecture  
Maria Lepowski, Professor, Anthropology  
Chris Livanos, Professor, Comparative Literature  
Alfonso Morales, Professor, Urban and Regional Planning  
Michael Peterson, Professor, Art and Interdisciplinary Theatre Studies  
Ann Smart Martin, Professor, Art History  
J. Randolph Valentine, Professor; Language Sciences & American Indian  
Studies  
Rebekah Willett, Associate Professor, iSchool

*\*unit head*

## EAST CENTRAL EUROPEAN LANGUAGES, LITERATURES, AND CULTURES, CERTIFICATE

**Admissions to the East Central European Languages, Literatures, and Cultures Certificate have been suspended as of fall 2023 and will be discontinued as of fall 2027. If you have any questions, please contact the department.**

Explore the crossroads of Europe with courses designed to give you the linguistic-cultural skills for successful academic, business, political, diplomatic, and analytical careers centered on the continent's most economically dynamic, strategically important, and culturally rich region. Discover the world that has survived the horrors of two world wars, given birth to some of the most powerful dissident movements in modern history, and inspired the world with its art, film, literature, and political thought.

Are you fascinated with East-Central Europe? Do you want to learn Polish or Czech? Do you want to hear more about the professional opportunities that study of the region can offer you? **The Certificate in East Central European Languages, Literatures, and Cultures (ECELLC)** is your gateway!

- Only 15 credits required to complete;
- Excellent study abroad and scholarship opportunities;
- A rich set of course offerings that includes language instruction, as well as theme-based classes on topics such as popular culture and cultural history, (post-)communism, the immigrant experience in America, dissidence, film, the politics of laughter, and science-fiction.

## HOW TO GET IN

**Admissions to the East Central European Languages, Literatures, and Cultures Certificate have been suspended as of fall 2023 and will be discontinued as of fall 2027. If you have any questions, please contact the department.**



## REQUIREMENTS

In order to receive the certificate in East Central European languages, literature, and cultures, students are required to complete a minimum of **15 credits total**.

Code	Title	Credits
<b>Part 1</b>		
Select one of the following options:		6-8
SLAVIC 217 & SLAVIC 218	Third Semester Czech and Fourth Semester Czech	
SLAVIC 207 & SLAVIC 208	Third Semester Polish and Fourth Semester Polish <sup>1</sup>	
<b>Part 2</b>		
Select three courses from the following:		9
LITTRANS 207	Slavic Science Fiction through Literature and Film	
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries	
LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation	
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	
LITTRANS 454	History of Serbian and Croatian Literature	
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	
LITTRANS 473	Polish Literature (in Translation) since 1863	
SLAVIC 231	History and Ethics on Film: Polish Cinema	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
<b>Total Credits</b>		<b>15</b>

1

Students can satisfy this requirement by completing any two courses in Polish language beyond the second semester, including: SLAVIC 207 Third Semester Polish, SLAVIC 208 Fourth Semester Polish, SLAVIC 277 Third Year Polish I, SLAVIC 278 Third Year Polish II, SLAVIC 331 Fourth Year Polish I, and SLAVIC 332 Fourth Year Polish II.

## RESIDENCE AND QUALITY OF WORK

At least 8 credits must be earned in residence.

Students must earn a cumulative 2.000 GPA on required certificate coursework.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Minimally acquire intermediate proficiency in an East Central European Language (Czech, Polish, or SerboCroatian).
2. Develop and apply writing skills and oral communications skills appropriate to Liberal Arts education in the context of Slavic studies to the literatures and cultures of the region.
3. Develop and apply critical-thinking skills inherent in the Liberal Arts tradition to the literature and culture of the region.
4. Analyze and interpret cultural products of the region (i.e. works of literature, films, etc.) in themselves and in the context of specific historical and cultural conditions.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

Language placement tests are advised for any student with previous knowledge or experience with Polish or Czech. The test consists of a one-on-one appointment with a professor, with written, oral, and reading comprehension components.

Placement Advisors for the languages represented by the certificate are:

- David Danaher (dsdanaher@wisc.edu) for Czech
- Łukasz Wodzyński (lukasz.wodzynski@wisc.edu) for Polish

For other undergraduate concerns or to declare the certificate, please contact our undergraduate advisor:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 836 Van Hise Hall  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/25714/schedule>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### POLISH ASSISTANT PROFESSOR

Łukasz Wodzyński

### SENIOR LECTURER

Ewa Miernowska

### LECTURER

Krzysztof Borowski

### PROFESSOR EMERIT

Halina Filipowicz

### CZECH PROFESSOR

David Danaher\*

\*unit head

## FOLKLORE, CERTIFICATE

Folklore is the discovery and understanding of everyday human culture – the patterns of ideas, behavior, music, dance, foodways, rituals, crafts, traditions, beliefs, lore, and customs of the everyday people that define our world.

Folklore is a discipline which crosses cultural borders and ethnic boundaries. It seeks to define the place of cultures and ethnicities within the family of humankind as well as examine and document how they intersect and influence each other. It builds bridges of understanding and is critical to our appreciation of how the world works, and how we use traditional knowledge to meet new challenges.

Folklore students will gain fresh perspectives on the ethnic, regional, occupational, gender, and other identities of individuals in specific communities. Students gain knowledge and experience in cultural backgrounds, collection techniques, fieldwork and research, theoretical analysis, and text comprehension and writing.

Folklore touches on every aspect of human life: health and illness, cultural diversity, social and political movements, superstition and fears, the movement of information and disinformation, trends and memes, family and home life, educational systems, entertainment and creative arts, politics and government, fashion and design, gender and sexuality, events and festivals, and more.

Training in Folklore and folklorist practices is useful in careers in the arts, public history, preservation, and museum stewardship, but also in health and medicine, social work, education, law, politics and intelligence, psychology, anthropology, marketing, the non-profit sector, journalism, gaming, international business, tourism, and much more.

## HOW TO GET IN

Students must make an appointment with or email the undergraduate advisor to declare the certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE FOLKLORE CERTIFICATE

A total of 12 credits to complete the Certificate, to include:<sup>1</sup>

#### CATEGORY A: BASICS, FIELDWORK, DOCUMENTING, AND PRESERVING

One course and three credits are required, from:

Code	Title	Credits
FOLKLORE 100	Introduction to Folklore	3
FOLKLORE/ AFROAMER/ AMER IND/ ASIAN AM/ CHICLA 102	Introduction to Comparative US Ethnic and American Indian Studies	3
FOLKLORE/ GNS 200	Folklore of Central, Eastern and Northern Europe	3
FOLKLORE 230	Introduction to American Folklore	3

FOLKLORE 320	Folklore of Wisconsin	3	FOLKLORE 415	Advanced Topics in Folklore	1-3
FOLKLORE/ L I S 490	Field Methods and the Public Presentation of Folklore	3	FOLKLORE/ GEN&WS 428	Gender and Expressive Culture	3
FOLKLORE 491	Practicum in Public Folklore	1-3	FOLKLORE 430	Topics in American Folklore: Ethnic Studies	3-6
FOLKLORE 510	Folklore Theory	3	FOLKLORE/ AMER IND/ ANTHRO 431	American Indian Folklore	3
FOLKLORE/ COM ARTS 522	Digital Storytelling for Social Media	3	FOLKLORE/ AMER IND/ ANTHRO/ GEN&WS 437	American Indian Women	3

## CATEGORY B: ANALYSIS AND FOCUSED TOPICS

One course and three credits are required, from:

Code	Title	Credits	Code	Title	Credits
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3	FOLKLORE 439	Foodways	3
FOLKLORE/ RELIG ST 104	Sacred Places and Journeys	3	FOLKLORE/ SCAND ST 440	Scandinavian American Folklore	3
FOLKLORE/ AFRICAN 210	The African Storyteller	3	FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	3	FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE 215	Elementary Topics in Folklore	1-3	FOLKLORE/ MEDIEVAL/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	3
FOLKLORE 220	The Folk Tale	3	FOLKLORE 451	The Supernatural in the Modern World	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	FOLKLORE 460	Folk Epics	3
FOLKLORE 315	Intermediate Topics in Folklore	1-3	FOLKLORE/ GEN&WS 467	Women and Politics in Popular Culture and Folklore	3
FOLKLORE 317	The Irish Tradition	3	FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature	3
FOLKLORE/ AFROAMER/ ASIAN AM/ DANCE 319	Afro Asian Improv: From Hip Hop to Martial Arts Fusion	3	FOLKLORE 491	Practicum in Public Folklore	1-3
FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2	FOLKLORE/ MUSIC 515	Proseminar in Ethnomusicology	3
FOLKLORE/ LITTRANS 327	The Vampire in Literature and Film	3	FOLKLORE/ MUSIC 516	Ethnographic Methods for Music and Sound	3
FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3	FOLKLORE 518	The Scottish Tradition	3
FOLKLORE/ LITTRANS/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller	3	FOLKLORE/ ANTHRO 520	Ethnic Representations in Wisconsin	4
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4	FOLKLORE 530	Topics in Folklore	1-3
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4	FOLKLORE 540	Local Culture and Identity in the Upper Midwest	3
FOLKLORE/ RELIG ST 352	Shamanism	3	ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3
FOLKLORE/ RELIG ST 359	Myth	3	ANTHRO/ LINGUIS 430	Language and Culture	3-4
FOLKLORE 399	Directed Study in Folklore for Undergraduates	1-3	ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	3
FOLKLORE/ MUSIC 402	Musical Cultures of the World	3			

## RESIDENCE & QUALITY OF WORK

- A minimum of 6 certificate credits must be taken in residence
- 2.000 GPA in all courses eligible for the certificate

1

Courses taken on a Pass/Fail grading basis are not eligible, and do not count, in the Certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate skill in the methods and productions folklorists employ in their work.
2. Analyze the connections between expressive performances and the wider workings of culture.
3. Apply and engage in ethical considerations in research and collaborative practice, particularly with reference to cultural, economic, religious, ethnic, and gender diversity.

### ADVISING AND CAREERS

## ADVISING AND CAREERS

Students interested in the Folklore Certificate should contact Joanna Schuth, Undergraduate Advisor, for more assistance.

Joanna Schuth, Undergraduate Advisor  
jschuth@wisc.edu

Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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  - INTER-LS 260 Internship in the Liberal Arts and Sciences

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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

## FOLKLORE PROGRAM

### FOLKLORE COURSE TEACHING CORE:

Lowell Brower, Lecturer, Teaching Faculty; German, Nordic and Slavic  
 B. Marcus Cederström, Teaching Faculty; German, Nordic and Slavic  
 Langston Collin Wilkins, Assistant Professor, German, Nordic, and Slavic and African American Studies  
 Thomas DuBois, Professor; German, Nordic and Slavic  
 Christine Garlough\*, Professor; Gender and Women's Studies  
 Nathan Gibson, Audio-Visual Preservation Archivist, UW-Madison General Library System  
 Janet Gilmore, Professor; Planning and Landscape Architecture  
 Jennifer Gipson, Assistant Professor; French and Italian  
 Scott Mellor, Faculty Associate; German, Nordic and Slavic  
 Anna Rue, Assistant Faculty Associate; Center for the Study of Upper  
 Midwestern Cultures

### FOLKLORE CROSS-LISTED COURSE TEACHING CORE:

Matthew H. Brown, Assistant Professor; African Cultural Studies  
 Jerome Camal, Associate Professor, Anthropology  
 Nadia Chana, Assistant Professor; Music: Ethnomusicology  
 Peggy Choy, Associate Professor; Dance  
 Susan Cook, Professor, School of Music  
 Laurie Beth Clark, Professor, Art and Interdisciplinary Theatre Studies  
 Mary Hoefflerle, Faculty Associate, Art  
 Rob Howard, Professor; Communication Arts  
 Evelyn Howell, Professor, Department of Planning and Landscape Architecture  
 Maria Lepowski, Professor, Anthropology  
 Chris Livanos, Professor, Comparative Literature  
 Alfonso Morales, Professor, Urban and Regional Planning  
 Michael Peterson, Professor, Art and Interdisciplinary Theatre Studies  
 Ann Smart Martin, Professor, Art History  
 J. Randolph Valentine, Professor; Language Sciences & American Indian Studies  
 Rebekah Willett, Associate Professor, iSchool

\*unit head

## GERMAN, B.A.

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

### German

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies

and are playing an increasingly important role in world affairs. More Americans claim German ethnicity than any other, and German-speaking immigrants and their descendants have had an enduring impact on the history and culture of the United States. UW–Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

### Dutch

Knowledge of Dutch provides access to a culture that has been an important force in world history since the Middle Ages. The language of more than 20 million inhabitants of the Netherlands and Flanders (Dutch-speaking Belgium), Dutch is also spoken in Suriname and the Netherlands Antilles. It is also an important second language in Indonesia. As major economic powers, Belgium and the Netherlands play a leading role in shaping the European Union. World-class research in the sciences and humanities is conducted at Dutch and Belgian universities, and both countries can boast of a cultural life in which art, music, and theater are all flourishing.

## STUDY ABROAD

The German program works closely with International Academic Programs (<http://www.studyabroad.wisc.edu/>) to provide a range of opportunities for study in Germany and the Netherlands, for majors and nonmajors alike. The program also cooperates with the School of Business, which maintains study abroad programs in Germany and Austria open to all qualified undergraduates, not just business majors. Finally, the College of Engineering and the College of Agriculture and Life Sciences offer study abroad programs in Germany for qualified students in these colleges.

## OTHER OPPORTUNITIES FOR GERMAN STUDENTS

UW–Madison students interested in international internships should visit the website of the International Internship Program (<http://internships.international.wisc.edu/>).

The German-language immersion dormitory, Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch/>), is located in Richardson House in Adams Hall, one of the Lakeshore dorms. Undergraduate students live and speak German together with a resident native speaker of German. Contact the German program for applications and details.

Other regular student activities include film screenings and lectures as well as informal, conversation-oriented Kaffeestunde, Stammtisch, Dutch Table, and the German Club. For additional information, contact the German program.

## OFFERINGS IN DUTCH STUDIES

Course offerings in Dutch include five semesters of language instruction as well as courses in the literature and culture of the Low Countries. Courses in Dutch language satisfy the L&S foreign language requirement, while courses in Dutch literature and culture carry literature and humanities credits, respectively. Dutch literature is also offered under Literature in Translation.

A major in Dutch studies is not yet established at UW–Madison, but interested students are encouraged to pursue an individual major in the field. In addition to the study of language, literature, and culture, this could entail coursework in art history, geography, history, sociology, and so on. Courses taken in the study abroad program in Utrecht can also be applied to an individual major in Dutch studies.

## HOW TO GET IN

### DECLARING THE MAJOR

Students who have completed the prerequisite coursework may declare the German major at any time by consulting with the German program's undergraduate advisor.

Students declared in the German certificate may not be declared in the German major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

### PREREQUISITES FOR THE MAJOR IN GERMAN

A total of 9 credits of language coursework at the third-year (post-204, "2xx") level is required for the German major. Third-year German language courses (GERMAN 249, GERMAN 258, GERMAN 262, GERMAN 285) are not sequenced; they may be taken in any order and/or simultaneously.

Complete one of the following two groups of prerequisite courses:

Code	Title	Credits
<b>Group 1:</b>		
GERMAN 249 & GERMAN 258 & GERMAN 262	Intermediate German - Speaking and Listening and Intermediate German-Reading and Intermediate German-Writing	9
<b>Group 2:</b>		
GERMAN 249 & GERMAN 285	Intermediate German - Speaking and Listening and Intermediate Intensive (Honors) German: Language, Culture, Texts	9

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

27 credits in the major, as follows:

Code	Title	Credits
<b>Required Courses</b>		
GERMAN 337	Advanced Composition & Conversation	6
GERMAN 676	Advanced Seminar in German Studies <sup>1</sup>	
	or GERMAN 677 Seminar in German Culture Studies	
<b>Electives<sup>1</sup></b>		
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	21
GERMAN 351	Introduction to German Linguistics	
GERMAN 352	Topics in German Linguistics	
GERMAN 362	Topics in German Literature	
GERMAN 367	Study Abroad in German Literature	
GERMAN 368	Study Abroad in German Culture	
GERMAN 369	Study Abroad in German Linguistics	
GERMAN 372	Topics in German Culture	
GERMAN 385	Honors Seminar in German Literature	
GERMAN 411	Kultur des 20. und 21. Jahrhunderts	
GERMAN 612	German Literary Movements Since 1750	
GERMAN 625	Letterkunde der Lage Landen	
GERMAN 632	A Theme in German Literature	
GERMAN 644	Theory and Practice of German Drama	
GERMAN 645	Cultuurkunde der Lage Landen	
GERMAN 650	History of the German Language	
GERMAN/MEDIEVAL 651	Introduction to Middle High German	
GERMAN/COM ARTS 655	German Film	
GERMAN 677	Seminar in German Culture Studies	
GERMAN 681	Senior Honors Thesis—First Semester	
GERMAN 682	Senior Honors Thesis—Second Semester	
GERMAN 683	Senior Honors Seminar in German Literature	
GERMAN 698	Directed Study	
GERMAN 699	Directed Study	
<b>Total Credits</b>		<b>27</b>

## COGNATE COURSES AS ELECTIVES

Up to 9 cognate course credits may count as electives within the German major. These are courses with German-related subject matter that are taught in English, either in the German program or in other departments. Cognate courses taken in the German program may be at the Elementary, Intermediate, or Advanced levels; those taken in other departments must be at the Advanced level only. Any questions about which courses may be counted as cognate courses may be directed to the undergraduate advisor. Currently the cognate list includes:

Code	Title	Credits
GERMAN 236	Bascom Course	
GERMAN 245	Topics in Dutch Life and Culture	
GERMAN 264	Culture in 20th Century Berlin	
GERMAN 266	Topics in German and/or Yiddish Culture	
GERMAN 267	Yiddish Song and the Jewish Experience	
GERMAN/ JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	
GERMAN 272	Nazi Culture	
GERMAN 275	Kafka and the Kafkaesque	
GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	
GERMAN 278	Topics in German Culture	
GERMAN/ JEWISH/ LITTRANS 279	Yiddish Literature and Culture in America	
GERMAN/ LITTRANS 280	From Grimm to Gryffindor: German Fairytales (Re)imagined	
GERMAN 325	Topics in Dutch Literature	
GERMAN 445	Topics in Dutch Culture	
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	
GERMAN 560	Topics in German Studies	
GERMAN 625	Letterkunde der Lage Landen	
GERMAN 645	Cultuurkunde der Lage Landen	
GERMAN/ MEDIEVAL 651	Introduction to Middle High German	
GEN&WS/ LITTRANS 270	German Women Writers in Translation	
GNS 375	Philosophy, Theory, Criticism	
HISTORY/ JEWISH 310	The Holocaust	
HISTORY/ ENVIR ST 328	Environmental History of Europe	
HISTORY 359	History of Europe Since 1945	
HISTORY 410	History of Germany, 1871 to the Present	
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	
RELIG ST 406	The Amish	

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all GERMAN courses and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in GERMAN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the German undergraduate advisor.

### HONORS IN THE GERMAN MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all Advanced-level GERMAN courses
- Complete 29 total Advanced-level credits in German, 20 of which must be taken for Honors, to include:

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation (for honors credit)	3
GERMAN 676	Advanced Seminar in German Studies (for honors credit)	3
GERMAN 677	Seminar in German Culture Studies	3
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	6

## FOOTNOTES

1

At least 3 of these credits must be taken on the UW-Madison campus (not through Study Abroad).

2

GERMAN courses numbered 300-699 are upper-level in the major, except: GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314, GERMAN 325, GERMAN 335, GERMAN 377, GERMAN 378, GERMAN 379, GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, GERMAN 404, GERMAN 445, and any Dutch topic course.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

Physical Science Breadth	3 Electives	7
Elective	4	
	<b>16</b>	<b>16</b>

**Senior**

Fall	Credits	Spring	Credits
300+ Level GERMAN Elective	3	GERMAN 676	3
300+ Level GERMAN Elective	3	300+ Level GERMAN Elective	3
Science Breadth	3	Electives	9
Electives	6		
	<b>15</b>		<b>15</b>

**Total Credits 120****FOUR-YEAR PLAN****SAMPLE FOUR-YEAR PLAN**

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Students considering a major in German should consult with the undergraduate advisor for German early to discuss how to complete their degree in four academic years.

**Freshman**

Fall	Credits	Spring	Credits
GERMAN 101	4	GERMAN 102	4
Communication A	3	GERMAN/JEWISH/ LITTRANS 279 (meets Ethnic Studies Requirement)	3
Quantitative Reasoning A	3	Biological Science Breadth	3
Social Science Breadth	4	Social Science Breadth	4
	<b>14</b>		<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
GERMAN 203	4	GERMAN 204	4
GERMAN 236	3	GERMAN 275	3
Quantitative Reasoning B	3-4	GERMAN 267 (enroll in Communication B Section)	4
INTER-LS 210	1	Social Science Breadth	4
Elective	4		
	<b>15</b>		<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
GERMAN 249	3	GERMAN 337	3-4
GERMAN 258	3	300+ Level GERMAN Elective	3
GERMAN 262	3	Science Breadth	3

**ADVISING AND CAREERS****ADVISING AND CAREERS**

For advising questions related to the German major, contact the GNS+ Undergraduate Advisor:

Joanna Schuth, Undergraduate Advisor  
jschuth@wisc.edu (mlouden@wisc.edu)  
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Language placement tests are advised for any student with previous knowledge or experience with German or Dutch. The German test is proctored through the University Placement Test program; more information is available here: <https://exams.wisc.edu/placement/>

If you have questions about your placement test score, please contact the Undergraduate Advisor or the Placement Advisor:

Jeanne M. Schueller, German Language Program Coordinator and  
Placement Advisor  
jmschuel@wisc.edu  
866 Van Hise Hall

The placement test for Dutch is a one-on-one appointment with a professor, with written, oral, and reading comprehension components. The Placement Advisor for Dutch is Jolanda Vanderwal Taylor. Please contact the undergraduate advisor to request placement.

Any questions regarding placement in German or Dutch may be directed to the undergraduate placement advisors for these programs:

Jeanne M. Schueller, Undergraduate German Placement Advisor  
jmschuel@wisc.edu  
866 Van Hise Hall

Jolanda Vanderwal Taylor, Undergraduate Dutch Placement Advisor  
jvtaylor@wisc.edu  
608-262-5790  
832 Van Hise Hall

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For advising on careers related to German, Dutch, and other languages, refer to:



Languages at UW-Madison  
Language Institute  
Careers (<https://languages.wisc.edu/beyond/careers/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Monika Chavez  
Sabine Gross  
Sonja Klocke  
Mark Loudon\*  
B. Venkat Mani  
Pamela Potter  
Jolanda Vanderwal Taylor

### ASSOCIATE PROFESSORS

Salvatore Calomino  
Sonja Klocke  
Sabine Möedersheim

### ASSISTANT PROFESSORS

Hannah V. Eldridge  
Julia Goetze  
Katerina Somers  
Adam Stern

Sunny Yudkoff

## TEACHING FACULTY

Julie Larson-Guenette  
Jeanne Schueller

## LECTURER

Melissa Sheedy

*\*Unit Head*

## GERMAN, B.S.

The German program affords students the opportunity to begin or to continue their study of German and/or Dutch.

### German

Knowledge of German provides access to a culture that for more than a millennium has been central to the history, economy, arts, and sciences not just of Europe but of Western civilization as a whole. In the contemporary world, German-speaking countries have Europe's strongest economies and are playing an increasingly important role in world affairs. More Americans claim German ethnicity than any other, and German-speaking immigrants and their descendants have had an enduring impact on the history and culture of the United States. UW-Madison has been a leader in the field of German studies for more than a century. The university's libraries are remarkable for the depth and breadth of their German-language holdings.

### Dutch

Knowledge of Dutch provides access to a culture that has been an important force in world history since the Middle Ages. The language of more than 20 million inhabitants of the Netherlands and Flanders (Dutch-speaking Belgium), Dutch is also spoken in Suriname and the Netherlands Antilles. It is also an important second language in Indonesia. As major economic powers, Belgium and the Netherlands play a leading role in shaping the European Union. World-class research in the sciences and humanities is conducted at Dutch and Belgian universities, and both countries can boast of a cultural life in which art, music, and theater are all flourishing.

## STUDY ABROAD

The German program works closely with International Academic Programs (<http://www.studyabroad.wisc.edu/>) to provide a range of opportunities for study in Germany and the Netherlands, for majors and nonmajors alike. The program also cooperates with the School of Business, which maintains study abroad programs in Germany and Austria open to all qualified undergraduates, not just business majors. Finally, the College of Engineering and the College of Agriculture and Life Sciences offer study abroad programs in Germany for qualified students in these colleges.

## OTHER OPPORTUNITIES FOR GERMAN STUDENTS

UW-Madison students interested in international internships should visit the website of the International Internship Program (<http://internships.international.wisc.edu/>).

The German-language immersion dormitory, Stockwerk Deutsch (<http://gns.wisc.edu/stockwerk-deutsch/>), is located in Richardson House in Adams Hall, one of the Lakeshore dorms. Undergraduate students live and

speak German together with a resident native speaker of German. Contact the German program for applications and details.

Other regular student activities include film screenings and lectures as well as informal, conversation-oriented Kaffeestunde, Stammtisch, Dutch Table, and the German Club. For additional information, contact the German program.

## OFFERINGS IN DUTCH STUDIES

Course offerings in Dutch include five semesters of language instruction as well as courses in the literature and culture of the Low Countries. Courses in Dutch language satisfy the L&S foreign language requirement, while courses in Dutch literature and culture carry literature and humanities credits, respectively. Dutch literature is also offered under Literature in Translation.

A major in Dutch studies is not yet established at UW–Madison, but interested students are encouraged to pursue an individual major in the field. In addition to the study of language, literature, and culture, this could entail coursework in art history, geography, history, sociology, and so on. Courses taken in the study abroad program in Utrecht can also be applied to an individual major in Dutch studies.

## HOW TO GET IN

### DECLARING THE MAJOR

Students who have completed the prerequisite coursework may declare the German major at any time by consulting with the German program's undergraduate advisor.

Students declared in the German certificate may not be declared in the German major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

### PREREQUISITES FOR THE MAJOR IN GERMAN

A total of 9 credits of language coursework at the third-year (post-204, "2xx") level is required for the German major. Third-year German language courses (GERMAN 249, GERMAN 258, GERMAN 262, GERMAN 285) are not sequenced; they may be taken in any order and/or simultaneously.

Complete one of the following two groups of prerequisite courses:

Code	Title	Credits
<b>Group 1:</b>		
GERMAN 249 & GERMAN 258 & GERMAN 262	Intermediate German - Speaking and Listening and Intermediate German-Reading and Intermediate German-Writing	9
<b>Group 2:</b>		
GERMAN 249 & GERMAN 285	Intermediate German - Speaking and Listening and Intermediate Intensive (Honors) German: Language, Culture, Texts	9

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.

Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

27 credits in the major, as follows:

Code	Title	Credits
<b>Required Courses</b>		<b>6</b>
GERMAN 337	Advanced Composition & Conversation	
GERMAN 676	Advanced Seminar in German Studies <sup>1</sup>	
or GERMAN 677 Seminar in German Culture Studies		
<b>Electives<sup>1</sup></b>		<b>21</b>
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	
GERMAN 351	Introduction to German Linguistics	
GERMAN 352	Topics in German Linguistics	
GERMAN 362	Topics in German Literature	
GERMAN 367	Study Abroad in German Literature	
GERMAN 368	Study Abroad in German Culture	
GERMAN 369	Study Abroad in German Linguistics	
GERMAN 372	Topics in German Culture	
GERMAN 385	Honors Seminar in German Literature	
GERMAN 411	Kultur des 20. und 21. Jahrhunderts	
GERMAN 612	German Literary Movements Since 1750	
GERMAN 625	Letterkunde der Lage Landen	
GERMAN 632	A Theme in German Literature	
GERMAN 644	Theory and Practice of German Drama	
GERMAN 645	Cultuurkunde der Lage Landen	
GERMAN 650	History of the German Language	
GERMAN/MEDIEVAL 651	Introduction to Middle High German	
GERMAN/COM ARTS 655	German Film	
GERMAN 677	Seminar in German Culture Studies	

GERMAN 681	Senior Honors Thesis-First Semester	
GERMAN 682	Senior Honors Thesis-Second Semester	
GERMAN 683	Senior Honors Seminar in German Literature	
GERMAN 698	Directed Study	
GERMAN 699	Directed Study	
<b>Total Credits</b>		<b>27</b>

## COGNATE COURSES AS ELECTIVES

Up to 9 cognate course credits may count as electives within the German major. These are courses with German-related subject matter that are taught in English, either in the German program or in other departments. Cognate courses taken in the German program may be at the Elementary, Intermediate, or Advanced levels; those taken in other departments must be at the Advanced level only. Any questions about which courses may be counted as cognate courses may be directed to the undergraduate advisor. Currently the cognate list includes:

Code	Title	Credits
GERMAN 236	Bascom Course	
GERMAN 245	Topics in Dutch Life and Culture	
GERMAN 264	Culture in 20th Century Berlin	
GERMAN 266	Topics in German and/or Yiddish Culture	
GERMAN 267	Yiddish Song and the Jewish Experience	
GERMAN/JEWISH/LITTRANS 269	Yiddish Literature and Culture in Europe	
GERMAN 272	Nazi Culture	
GERMAN 275	Kafka and the Kafkaesque	
GERMAN/LITTRANS 276	Special Topics in German and World Literature/s	
GERMAN 278	Topics in German Culture	
GERMAN/JEWISH/LITTRANS 279	Yiddish Literature and Culture in America	
GERMAN/LITTRANS 280	From Grimm to Gryffindor: German Fairytales (Re)imagined	
GERMAN 325	Topics in Dutch Literature	
GERMAN 445	Topics in Dutch Culture	
GERMAN/JEWISH 510	German-Jewish Culture Since the 18th Century	
GERMAN 560	Topics in German Studies	
GERMAN 625	Letterkunde der Lage Landen	
GERMAN 645	Cultuurkunde der Lage Landen	
GERMAN/MEDIEVAL 651	Introduction to Middle High German	
GEN&WS/LITTRANS 270	German Women Writers in Translation	
GNS 375	Philosophy, Theory, Criticism	
HISTORY/JEWISH 310	The Holocaust	

HISTORY/ ENVIR ST 328	Environmental History of Europe
HISTORY 359	History of Europe Since 1945
HISTORY 410	History of Germany, 1871 to the Present
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
JEWISH/ ENGL 539	Jewish Literatures in Diaspora
RELIG ST 406	The Amish

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all GERMAN courses and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in GERMAN, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the German undergraduate advisor.

## HONORS IN THE GERMAN MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all Advanced-level GERMAN courses
- Complete 29 total Advanced-level credits in German, 20 of which must be taken for Honors, to include:

Code	Title	Credits
GERMAN 337	Advanced Composition & Conversation (for honors credit)	3
GERMAN 676	Advanced Seminar in German Studies (for honors credit)	3
GERMAN 677	Seminar in German Culture Studies	3
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	6

## FOOTNOTES

1

At least 3 of these credits must be taken on the UW-Madison campus (not through Study Abroad).

2

GERMAN courses numbered 300-699 are upper-level in the major, except: GERMAN 311, GERMAN 312, GERMAN 313, GERMAN 314, GERMAN 325, GERMAN 335, GERMAN 377, GERMAN 378, GERMAN 379, GERMAN 391, GERMAN 392, GERMAN 401, GERMAN 402, GERMAN 403, GERMAN 404, GERMAN 445, and any Dutch topic course.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

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## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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#### Freshman

Fall	Credits	Spring	Credits
GERMAN 101	4	GERMAN 102	4
Communication A	3	GERMAN/JEWISH/ LITTRANS 279 (meets Ethnic Studies Requirement)	3
Quantitative Reasoning A	3	Biological Science Breadth	3
Social Science Breadth	4	Social Science Breadth	4
<b>14</b>		<b>14</b>	

#### Sophomore

Fall	Credits	Spring	Credits
GERMAN 203	4	GERMAN 204	4
GERMAN 236	3	GERMAN 275	3
Quantitative Reasoning B	3-4	GERMAN 267 (enroll in Communication B Section)	4

INTER-LS 210	1 Social Science Breadth	4
Elective	4	
	<b>15</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
GERMAN 249	3	GERMAN 337	3-4
GERMAN 258	3	300+ Level GERMAN Elective	3
GERMAN 262	3	Science Breadth	3
Physical Science Breadth	3	Electives	7
Elective	4		
	<b>16</b>		<b>16</b>

**Senior**

Fall	Credits	Spring	Credits
300+ Level GERMAN Elective	3	GERMAN 676	3
300+ Level GERMAN Elective	3	300+ Level GERMAN Elective	3
Science Breadth	3	Electives	9
Electives	6		
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING AND CAREERS**

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Jeanne Schueller

## LECTURER

Melissa Sheedy

*\*Unit Head*

# GERMAN, CERTIFICATE

The certificate in German offers students the opportunity to develop proficiency in German, thereby complementing major(s) in other subjects across the university. It focuses on German language skills and advanced courses taught in German. It also strengthens the profiles of students who intend to pursue careers or graduate study in areas where knowledge of German is useful. The certificate in German is open to all undergraduate students, including University Special students who may already have completed majors and earned degrees.

## HOW TO GET IN

To declare the Certificate in German, email or make an appointment with the undergraduate advisor for the program.

Students declared in the German major are not eligible to declare the Certificate in German.

## REQUIREMENTS

## REQUIREMENTS FOR THE CERTIFICATE

15 credits, which must include at least two courses in Advanced German.

Code	Title	Credits
<b>Advanced GERMAN (2 courses required)</b>		<b>6</b>
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	
GERMAN 337	Advanced Composition & Conversation	
GERMAN 351	Introduction to German Linguistics	
GERMAN 352	Topics in German Linguistics	
GERMAN 362	Topics in German Literature	

GERMAN 367	Study Abroad in German Literature
GERMAN 368	Study Abroad in German Culture
GERMAN 369	Study Abroad in German Linguistics
GERMAN 372	Topics in German Culture
GERMAN 385	Honors Seminar in German Literature

GERMAN 411 Kultur des 20. und 21. Jahrhunderts

**Additional GERMAN, from any course listed above, 9**  
**or:**

GERMAN 249	Intermediate German - Speaking and Listening
GERMAN 258	Intermediate German-Reading
GERMAN 262	Intermediate German-Writing
GERMAN 285	Intermediate Intensive (Honors) German: Language, Culture, Texts

**Total Credits 15**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all courses eligible for the certificate
- At least 8 certificate credits must be completed in residence

Pass/fail courses do not apply to the certificate.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. to promote German proficiency in all major skill areas: speaking, listening, reading, and writing.
2. to foster a deeper understanding of the cultures of the German-speaking world through courses taught in German.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

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Joanna Schuth, Undergraduate Advisor  
jschuth@wisc.edu (mllouden@wisc.edu)  
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Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

Language placement tests are advised for any student with previous knowledge or experience with German or Dutch. The German test

is proctored through the University Placement Test program; more information is available here: <https://exams.wisc.edu/placement/>

If you have questions about your placement test score, please contact the Undergraduate Advisor or the Placement Advisor:

Jeanne M. Schueller, German Language Program Coordinator and Placement Advisor  
jmschuel@wisc.edu  
866 Van Hise Hall

The placement test for Dutch is a one-on-one appointment with a professor, with written, oral, and reading comprehension components. The Placement Advisor for Dutch is Jolanda Vanderwal Taylor. Please contact the undergraduate advisor to request placement.

Any questions regarding placement in German or Dutch may be directed to the undergraduate placement advisors for these programs:

Jeanne M. Schueller, Undergraduate German Placement Advisor  
jmschuel@wisc.edu  
866 Van Hise Hall

Jolanda Vanderwal Taylor, Undergraduate Dutch Placement Advisor  
jvtaylor@wisc.edu  
608-262-5790  
832 Van Hise Hall

For advising on careers related to German, Dutch, and other languages, contact the Language Institute (<https://languageinstitute.wisc.edu/>).

For advising on careers related to German, Dutch, and other languages, refer to:

Languages at UW-Madison  
Language Institute

Careers (<https://languages.wisc.edu/beyond/careers/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

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## PEOPLE

### PROFESSORS

Monika Chavez  
Sabine Gross  
Sonja Klocke  
Mark Loudon\*  
B. Venkat Mani  
Pamela Potter  
Jolanda Vanderwal Taylor

### ASSOCIATE PROFESSORS

Salvatore Calomino  
Sonja Klocke  
Sabine Möedersheim

## ASSISTANT PROFESSORS

Hannah V. Eldridge  
 Julia Goetze  
 Katerina Somers  
 Adam Stern  
 Sunny Yudkoff

## TEACHING FACULTY

Julie Larson-Guenette  
 Jeanne Schueller

## LECTURER

Melissa Sheedy

\*Unit Head

# LANGUAGES AND CULTURES OF NORTHERN EUROPE, CERTIFICATE

The Languages and Cultures of Northern Europe certificate offers an opportunity to study the many diverse linguistic, cultural, and religious communities that have become part of Northern Europe as a result of international migration and pan-European economic integration. Students earning the certificate have maximum flexibility of choice in the culture they wish to study in depth, or if they want to take a comparative approach over the region. The certificate maps intellectually a complex and fascinating region of contemporary Europe - one which is marked not only by longstanding national cultures but also by an increasingly diverse and mobile populace.

If students wish, students may include language study in Dutch, Swedish, Norwegian, Danish, Finnish, or Yiddish as part of their course choices.

## HOW TO GET IN

Students should contact the undergraduate advisor by email or make an appointment to declare the certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires a minimum of five courses and 18 credits. The courses must be distributed as follows:

Code	Title	Credits
	<b>Colonialism, Diversity, Indigeneity, Migration</b> <sup>1</sup>	<b>3</b>
<i>Complete at least one course and three credits:</i>		
GERMAN/ JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	
	or SCAND ST 43 The Art of Isak Dinesen/Karen Blixen	

SCAND ST/  
GEN&WS/  
LITTRANS 438

Sexual Politics in Scandinavia

SCAND ST/  
FOLKLORE 443

Sami Culture, Yesterday and Today

### Language, Literature, and Culture **15**

*Complete at least four courses and 15 credits from the list:*

FOLKLORE 317 The Irish Tradition

FOLKLORE/  
MEDIEVAL/  
SCAND ST 446

Celtic-Scandinavian Cultural Interrelations

FOLKLORE 518 The Scottish Tradition

GERMAN 111 First Semester Dutch

GERMAN 112 Second Semester Dutch

GERMAN 213 Third Semester Dutch

GERMAN 214 Fourth Semester Dutch

GERMAN 235 Dutch Conversation and Composition

GERMAN 245 Topics in Dutch Life and Culture

GERMAN/  
JEWISH/  
LITTRANS 269

Yiddish Literature and Culture in Europe

GERMAN 325 Topics in Dutch Literature

or LITTRANS 325 Topics in Dutch Literature in Translation

GERMAN 335 Dutch Conversation and Composition

GERMAN 377 Study Abroad in Dutch Literature

GERMAN 378 Study Abroad in Dutch Culture

GERMAN 379 Study Abroad in Dutch Linguistics

GERMAN 445 Topics in Dutch Culture

GERMAN 625 Letterkunde der Lage Landen

GERMAN 645 Cultuurkunde der Lage Landen

GNS/  
FOLKLORE 200

Folklore of Central, Eastern and Northern Europe

GNS/  
ENVIR ST 210

Cultures of Sustainability: Central, Eastern, and Northern Europe

JEWISH/GNS 105 First Semester Yiddish

LITTRANS/  
MEDIEVAL 235

The World of Sagas

LITTRANS/  
GERMAN/  
JEWISH 269

Yiddish Literature and Culture in Europe

LITTRANS 271 In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900

LITTRANS 274 In Translation: Masterpieces of Scandinavian Literature-the 20th Century

or SCAND ST 374 Masterpieces of Scandinavian Literature: the Twentieth Century

LITTRANS 275 In Translation: The Tales of Hans Christian Andersen

LITTRANS 324 Topics in Scandinavian Literature

LITTRANS 331 In Translation: Scandinavian Topics in Depth



LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
or SCAND ST 437	The Art of Isak Dinesen/Karen Blixen
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen
or SCAND ST 427	The Drama of Henrik Ibsen
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg
or SCAND ST 428	The Drama of August Strindberg
LITTRANS/ FOLKLORE/ MEDIEVAL 346	In Translation: The Icelandic Sagas
or SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation
LITTRANS 337	In Translation: 19th Century Scandinavian Fiction
LITTRANS 340	Contemporary Scandinavian Literature in Translation
or SCAND ST 429	Contemporary Scandinavian Literature
LITTRANS/ FOLKLORE/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore
or SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore
LITTRANS 350	Scandinavian Decadence in its European Context
LITTRANS/ SCAND ST 428	Memory and Literature from Proust to Knusgard
LITTRANS/ SCAND ST 435	The Sagas of Icelanders in English Translation
LITTRANS/ GEN&WS/ SCAND ST 438	Sexual Politics in Scandinavia
SCAND ST 102	Second Semester Norwegian
SCAND ST 101	First Semester Norwegian
SCAND ST 111	First Semester Swedish
SCAND ST 112	Second Semester Swedish
SCAND ST 121	First Semester Danish
SCAND ST 122	Second Semester Danish
SCAND ST 131	First Semester Finnish
SCAND ST 132	Second Semester Finnish
SCAND ST 201	Second Year Norwegian
SCAND ST 202	Second Year Norwegian
SCAND ST 211	Second Year Swedish
SCAND ST 212	Second Year Swedish
SCAND ST 221	Second Year Danish
SCAND ST 222	Second Year Danish
SCAND ST 250	Introduction to Scandinavia
SCAND ST 251	Readings in Norwegian Literature
SCAND ST 261	Readings in Swedish Literature
SCAND ST 271	Readings in Danish Literature
SCAND ST 276	Culture & Community in Scandinavia

SCAND ST 348	The Second World War in Nordic Culture
SCAND ST 355	Autobiography
SCAND ST 401	Contemporary Scandinavian Languages
SCAND ST 421	Advanced Topics in Nordic Studies
SCAND ST 426	Kierkegaard and Scandinavian Literature
SCAND ST/ MEDIEVAL 430	The Vikings
SCAND ST 450	Scandinavian Decadence in its European Context

**Total Credits****18**

1

Courses in the Colonialism, Diversity, Indigeneity, and Migration list may each only count once for the certificate.

## RESIDENCE AND QUALITY OF WORK

- At least 9 certificate credits must be completed in residence
- Minimum 2.000 GPA on all certificate courses.
- Courses taken pass/fail may not apply to the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Recognize and understand language, literary, and/or cultural phenomena as they pertain to Northern Europe and put them into context.
2. Recognize shifting geographic, cultural, ethnic/racial, and/or language factors in the Northern European region over time.
3. Demonstrate an understanding of major approaches, concepts and current research findings concerning the Northern European region.
4. Synthesize information, engage in discussion and research, and argue persuasively about key topics in the Northern European region.
5. Identify and distinguish between different types of sources used in the study of the Northern European region.
6. Integrate learned ideas and perspectives with broader social, cultural, and/or environmental contexts.

## ADVISING AND CAREERS

For advising and placement, please contact our undergraduate advisor:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 608-262-2090  
 836 Van Hise

Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

Students who transfer to UW with previous language experience should contact the undergraduate advisor as early as possible to schedule a placement test.

**Students should see the advisor during the semester before their last semester.** Prospective students are urged to consult the undergraduate advisor about the program at the first possible opportunity.

For additional career advising, please contact:

SuccessWorks at the College of Letters & Science  
711 State Street, Suite 300  
Madison, WI 53703  
608-262-3921  
[SuccessWorks@ls.wisc.edu](mailto:SuccessWorks@ls.wisc.edu)

## L&S CAREER RESOURCES

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 (<https://guide.wisc.edu/search/?P=INTER-LS%20210>) L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 (<https://guide.wisc.edu/search/?P=INTER-LS%20215>) Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSOR

Susan Brantly  
Thomas DuBois  
Jolanda Vanderwal Taylor

Kirsten Wolf\*

### ASSOCIATE PROFESSOR

Dean Krouk  
Sunny Yudkoff

### ASSISTANT PROFESSOR

Claus Andersen  
Benjamin Mier-Cruz  
Liina-Ly Roos

### TEACHING FACULTY

B. Marcus Cederström  
Scott A. Mellor

### LECTURER

Ida Moen Johnson  
Helen Durst

### ASSOCIATE LECTURER

Todd Michelson-Ambelang

\* *unit head*

## POLISH, B.A.

Polish is the most commonly spoken Slavic language of the European Union and the second largest Slavic language in the world, with over 50 million users across the globe. Polish culture has a remarkably rich tradition, shaped by a millennium of artistic and intellectual innovation as well as struggles for political, social, and cultural independence. Poland survived the two world wars and half a century of communist rule to emerge as a regional leader in East-Central Europe, the fastest-growing economy in the EU, and home to one of the most vibrant cultural scenes in the world. Polish diaspora counts among the largest in the world with major concentrations in the US, Canada, the UK, Germany, and France.

The Polish major offers courses in the Polish language, literature, culture, politics, and one of the most intricate, fascinating histories in Europe, providing the knowledge and skills for successful careers in business, politics, diplomacy, arts, translation, international law, environmental science, journalism, national security, tourism, and cultural services.

## HOW TO GET IN

To declare a major in Polish, students should make an appointment with or email the undergraduate advisor.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world.

Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The Polish major requires study of the Polish language, Polish literature in translation, Polish literature in the original language, as well as culture and area studies, as detailed below:

Code	Title	Credits
<b>Polish Language (complete two courses):</b>		<b>6</b>
SLAVIC 277	Third Year Polish I	
SLAVIC 278	Third Year Polish II	
<b>Polish Literature and Culture (complete both):</b>		
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
<b>Additional Course in Polish Language or Literature/Culture (complete one):</b>		<b>3</b>
SLAVIC 331	Fourth Year Polish I	
SLAVIC 332	Fourth Year Polish II	
SLAVIC 231	History and Ethics on Film: Polish Cinema <sup>1</sup>	
<b>Polish Literature and Culture Area Studies from:</b>		<b>6</b>
SLAVIC 231	History and Ethics on Film: Polish Cinema <sup>1</sup>	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 285	Slavic Culture in Context: An Honors Course	
SLAVIC 299	Directed Study	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	
SLAVIC 470	History of Polish Literature until 1863	

SLAVIC 472	History of Polish Literature after 1863
HISTORY 270	Eastern Europe since 1900
HISTORY 425	History of Poland and the Baltic Area
LITTRANS 207	Slavic Science Fiction through Literature and Film
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries
LITTRANS 229	Representation of the Jew in Eastern European Cultures
LITTRANS 241	Literatures and Cultures of Eastern Europe
LITTRANS 247	Topics in Slavic Literatures in Translation
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
LITTRANS/ SLAVIC 357	Intermediate Special Topics in Slavic Languages and Literatures
LITTRANS/ SLAVIC 467	Advanced Special Topics in Slavic Languages and Literatures
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863
LITTRANS 473	Polish Literature (in Translation) since 1863
POLI SCI 340	The European Union: Politics and Political Economy
POLI SCI 659	Politics and Society: Contemporary Eastern Europe

**Total Credits** **21**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence
- 15 credits in the major taken on the UW–Madison campus

### Upper-Level Courses in the Major:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 307	Study Abroad in Poland	1-4
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	3
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	3

HISTORY 425	History of Poland and the Baltic Area	3-4
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4

## HONORS IN THE MAJOR

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all SLAVIC courses and all courses counting in the major
- Complete a two-semester Senior Honors Thesis in SLAVIC 681 and SLAVIC 682, for a total of 6 credits
- 9 credits from the following list:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	3
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	3

## FOOTNOTES

1

SLAVIC 231 may only count within one requirement for the major.

## UNIVERSITY DEGREE REQUIREMENTS

<b>Total Degree</b>	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

LITTRANS 215	3 SLAVIC/LITTRANS	361	3
Science Breadth	3 Polish Area Studies Course		3
Electives	6 Science Breadth Elective		3
	<b>15</b>		<b>15</b>

## LEARNING OUTCOMES

- (Polish language proficiency) Develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Polish in a variety of social situations.
- Develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
- Develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
- Analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
- Demonstrate insight into Polish culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
SLAVIC 111	4	SLAVIC 112	4
Communication A	3	GERMAN 267	3-4
Quantitative Reasoning A	3-4	Social Science Breadth	4
Social Science Breadth	4	Biological Science Breadth	3
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
SLAVIC 207	4	SLAVIC 208	4
GNS/FOLKLORE 200 (Comm B)	3	SLAVIC/GEOG/HISTORY/POLI SCI 254	4
Physical Science Breadth	3	INTER-LS 210	1
Quantitative Reasoning B	3	Social Science Breadth	4
Elective	3	Elective	3
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
SLAVIC 277	3	SLAVIC 278	3

#### Fourth Year

Fall	Credits	Spring	Credits
SLAVIC 331	3	SLAVIC 332	3
Polish Area Studies course	3	Polish Area Studies course	3
Electives	9	Electives	9
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING AND CAREERS

Elementary courses in Polish are designed to meet the needs of students who begin to study the language in college, as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. However, retroactive credits can be granted in recognition of previous language study. L&S Retro Credit Policy (<https://kb.wisc.edu/lspage.php?id=23736>).

The Placement Advisor for Polish is Łukasz Wodzyński. Please contact the undergraduate advisor to request placement.

For other undergraduate concerns or to declare the major, please contact our undergraduate coordinator:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 836 Van Hise Hall  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

For additional career advising, please contact:

SuccessWorks at the College of Letters & Science  
 711 State Street, Suite 300  
 Madison, WI 53703  
 608-262-3921  
 SuccessWorks@ls.wisc.edu

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In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### POLISH ASSISTANT PROFESSOR

Lukasz Wodzyński

### SENIOR LECTURER

Ewa Miernowska

### LECTURER

Krzysztof Borowski

### PROFESSOR EMERIT

Halina Filipowicz

### CZECH PROFESSOR

David Danaher\*

\*unit head

## POLISH, B.S.

Polish is the most commonly spoken Slavic language of the European Union and the second largest Slavic language in the world, with over 50 million users across the globe. Polish culture has a remarkably rich tradition, shaped by a millennium of artistic and intellectual innovation as well as struggles for political, social, and cultural independence. Poland survived the two world wars and half a century of communist rule to emerge as a regional leader in East-Central Europe, the fastest-growing economy in the EU, and home to one of the most vibrant cultural scenes in

the world. Polish diaspora counts among the largest in the world with major concentrations in the US, Canada, the UK, Germany, and France.

The Polish major offers courses in the Polish language, literature, culture, politics, and one of the most intricate, fascinating histories in Europe, providing the knowledge and skills for successful careers in business, politics, diplomacy, arts, translation, international law, environmental science, journalism, national security, tourism, and cultural services.

## HOW TO GET IN

To declare a major in Polish, students should make an appointment with or email the undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The Polish major requires study of the Polish language, Polish literature in translation, Polish literature in the original language, as well as culture and area studies, as detailed below:

Code	Title	Credits
<b>Polish Language (complete two courses):</b>		<b>6</b>
SLAVIC 277	Third Year Polish I	
SLAVIC 278	Third Year Polish II	
<b>Polish Literature and Culture (complete both):</b>		
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
<b>Additional Course in Polish Language or Literature/Culture (complete one):</b>		<b>3</b>
SLAVIC 331	Fourth Year Polish I	
SLAVIC 332	Fourth Year Polish II	

SLAVIC 231	History and Ethics on Film: Polish Cinema <sup>1</sup>	
<b>Polish Literature and Culture Area Studies from:</b>		<b>6</b>
SLAVIC 231	History and Ethics on Film: Polish Cinema <sup>1</sup>	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	
SLAVIC 285	Slavic Culture in Context: An Honors Course	
SLAVIC 299	Directed Study	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	
SLAVIC 470	History of Polish Literature until 1863	
SLAVIC 472	History of Polish Literature after 1863	
HISTORY 270	Eastern Europe since 1900	
HISTORY 425	History of Poland and the Baltic Area	
LITTRANS 207	Slavic Science Fiction through Literature and Film	
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries	
LITTRANS 229	Representation of the Jew in Eastern European Cultures	
LITTRANS 241	Literatures and Cultures of Eastern Europe	
LITTRANS 247	Topics in Slavic Literatures in Translation	
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	
LITTRANS/ SLAVIC 357	Intermediate Special Topics in Slavic Languages and Literatures	
LITTRANS/ SLAVIC 467	Advanced Special Topics in Slavic Languages and Literatures	
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	
LITTRANS 473	Polish Literature (in Translation) since 1863	
POLI SCI 340	The European Union: Politics and Political Economy	
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	
<b>Total Credits</b>		<b>21</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, in residence
- 15 credits in the major taken on the UW–Madison campus

### Upper-Level Courses in the Major:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 307	Study Abroad in Poland	1-4
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	3
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	3
HISTORY 425	History of Poland and the Baltic Area	3-4
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4

## HONORS IN THE MAJOR

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all SLAVIC courses and all courses counting in the major
- Complete a two-semester Senior Honors Thesis in SLAVIC 681 and SLAVIC 682, for a total of 6 credits
- 9 credits from the following list:

Code	Title	Credits
SLAVIC 277	Third Year Polish I	3
SLAVIC 278	Third Year Polish II	3
SLAVIC 331	Fourth Year Polish I	3
SLAVIC 332	Fourth Year Polish II	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	3

SLAVIC/  
LITTRANS 467 Advanced Special Topics in Slavic Languages and Literatures

3

## FOOTNOTES

1

SLAVIC 231 may only count within one requirement for the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Polish language proficiency) Develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Polish in a variety of social situations.
2. Develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Demonstrate insight into Polish culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to



accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
SLAVIC 111		4 SLAVIC 112	4
Communication A		3 GERMAN 267	3-4
Quantitative Reasoning A		3-4 Social Science Breadth	4
Social Science Breadth		4 Biological Science Breadth	3
		<b>14</b>	<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
SLAVIC 207		4 SLAVIC 208	4
GNS/FOLKLORE 200 (Comm B)		3 SLAVIC/GEOG/HISTORY/POLI SCI 254	4
Physical Science Breadth		3 INTER-LS 210	1
Quantitative Reasoning B		3 Social Science Breadth	4
Elective		3 Elective	3
		<b>16</b>	<b>16</b>

### Third Year

Fall	Credits	Spring	Credits
SLAVIC 277		3 SLAVIC 278	3
LITTRANS 215		3 SLAVIC/LITTRANS 361	3
Science Breadth		3 Polish Area Studies Course	3
Electives		6 Science Breadth Elective	3
		<b>15</b>	<b>15</b>

### Fourth Year

Fall	Credits	Spring	Credits
SLAVIC 331		3 SLAVIC 332	3
Polish Area Studies course		3 Polish Area Studies course	3
Electives		9 Electives	9
		<b>15</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING AND CAREERS

Elementary courses in Polish are designed to meet the needs of students who begin to study the language in college, as well as those who began to study the language in high school. One unit (year) of high school coursework is roughly equivalent to one semester of college work; all incoming students, however, who want to continue their study of Polish are assigned to courses on the basis of placement tests. These tests may admit a student to a more advanced course, but give no credit toward graduation. However, retroactive credits can be granted in recognition of previous language study. L&S Retro Credit Policy (<https://kb.wisc.edu/lis/page.php?id=23736>).

The Placement Advisor for Polish is Łukasz Wodzyński. Please contact the undergraduate advisor to request placement.

For other undergraduate concerns or to declare the major, please contact our undergraduate coordinator:

Joanna Schuth, Undergraduate Advisor  
[jschuth@wisc.edu](mailto:jschuth@wisc.edu) ([undergrad@gns.wisc.edu](mailto:undergrad@gns.wisc.edu))  
 836 Van Hise Hall  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

For additional career advising, please contact:

SuccessWorks at the College of Letters & Science  
 711 State Street, Suite 300  
 Madison, WI 53703  
 608-262-3921  
[SuccessWorks@ls.wisc.edu](mailto:SuccessWorks@ls.wisc.edu)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### POLISH ASSISTANT PROFESSOR

Łukasz Wodzyński

**SENIOR LECTURER**

Ewa Miernowska

**LECTURER**

Krzysztof Borowski

**PROFESSOR EMERIT**

Halina Filipowicz

**CZECH  
PROFESSOR**

David Danaher\*

\*unit head

**RUSSIAN, B.A.**

Russian is a National Security Education Program Critical Language. Students in the Russian major not only learn the language but become familiar with the treasure of Russian cultural heritage in literature, visual art, theater, and music.

The Russian major is designed to meet the needs of students who begin to study the language in college, as well as those who began to study the language in high school. With a major in Russian you will be able to converse with ease in most common situations at work, school, social events, and everyday duties, as well as read and write at an advanced level. In addition, you will gain an appreciation and understanding of Russian culture and politics, past and present, and the literary and artistic traditions that Russian society holds dear.

**HOW TO GET IN**

To declare a major in Russian, students should make an appointment with or email the Russian undergraduate advisor.

**REQUIREMENTS****UNIVERSITY GENERAL  
EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General  
Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

**COLLEGE OF LETTERS  
& SCIENCE DEGREE  
REQUIREMENTS: BACHELOR OF  
ARTS (B.A.)**

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

**BACHELOR OF ARTS DEGREE  
REQUIREMENTS**

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Russian Language:</b>		<b>15</b>
SLAVIC 275 & SLAVIC 276 or SLAVIC 279	Third Year Russian I and Third Year Russian II Intensive Third Year Russian	
SLAVIC 315	Russian Language and Culture I	
SLAVIC 316	Russian Language and Culture II	
SLAVIC 321	Fourth Year Russian I	
<b>Foundations in Russian Literature &amp; Culture (complete three distinct courses):</b>		
<i>Literature Survey (complete one):</i>		<b>4</b>
LITTRANS 203 or LITTRANS 205	Survey of 19th and 20th Century Russian Literature in Translation I Survey of 19th and 20th Century Russian Literature in Translation II	
<i>Literature &amp; Culture (complete two):</i>		<b>6</b>
LITTRANS 201 or LITTRANS 205	Survey of 19th and 20th Century Russian Literature in Translation I Survey of 19th and 20th Century Russian Literature in Translation I	
LITTRANS 202 or LITTRANS 205	Survey of 19th and 20th Century Russian Literature in Translation II Survey of 19th and 20th Century Russian Literature in Translation II	
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	
<b>Capstone</b>		
SLAVIC 465 or SLAVIC 560	Advanced Readings in Russian Literature & Culture Capstone Seminar in Russian Literature and Culture	<b>3</b>
<b>Electives</b>		
<i>Intermediate or Advanced Elective (complete one):</i>		<b>3</b>
SLAVIC 309	Russian Area Studies on Study Abroad	
SLAVIC 310	Topics in Russian: Study Abroad	
SLAVIC/ LITTRANS 366	Intermediate Special Topics in Russian Literature & Culture	
SLAVIC 433	History of Russian Culture	
SLAVIC 434	Contemporary Russian Culture	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	

SLAVIC/ THEATRE 532	History of Russian Theatre	
SLAVIC 555	Advanced Russian Listening & Speaking	
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	
LITTRANS 220	Chekhov: The Drama of Modern Life	
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	
LITTRANS 222	Dostoevsky in Translation	
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	
LITTRANS 224	Tolstoy in Translation	
LITTRANS 240	Soviet Literature in Translation	
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context	
<i>Additional Elective (complete one):</i>		<b>3</b>
<i>Any Intermediate or Advanced-level course from the list above, or:</i>		
SLAVIC/ LITTRANS 238	Literature and Revolution	
SLAVIC 239	Performance and Power	
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	
SLAVIC/ LITTRANS 266	Elementary Special Topics in Russian Literature & Culture	
LITTRANS 207	Slavic Science Fiction through Literature and Film	

**Total Credits** **34**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in all major courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the major, in residence
- At least 15 credits in the major, taken on campus

## UPPER-LEVEL COURSES IN THE MAJOR

The following courses are upper-level in the Russian major:

Code	Title	Credits
SLAVIC 275	Third Year Russian I	
SLAVIC 276	Third Year Russian II	
SLAVIC 309	Russian Area Studies on Study Abroad	
SLAVIC 310	Topics in Russian: Study Abroad	
SLAVIC 315	Russian Language and Culture I	
SLAVIC 316	Russian Language and Culture II	
SLAVIC 321	Fourth Year Russian I	
SLAVIC 322	Fourth Year Russian II	
SLAVIC 440	Soviet Literature	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	

SLAVIC 465	Advanced Readings in Russian Literature & Culture
SLAVIC/ THEATRE 532	History of Russian Theatre
SLAVIC 555	Advanced Russian Listening & Speaking
SLAVIC 560	Capstone Seminar in Russian Literature and Culture
SLAVIC 681	Senior Honors Thesis
SLAVIC 682	Senior Honors Thesis
SLAVIC 699	Directed Study
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
LITTRANS 220	Chekhov: The Drama of Modern Life
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
LITTRANS 222	Dostoevsky in Translation
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings
LITTRANS 224	Tolstoy in Translation

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Russian advisor.

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all courses in the major
- Complete 18 credits in the major taken for Honors, taken on campus, with grades of B or better in the following:
  - SLAVIC 275, SLAVIC 276, SLAVIC 315, SLAVIC 316, SLAVIC 321 and SLAVIC 465 or SLAVIC 560
- Complete a Senior Thesis in SLAVIC 681 and SLAVIC 682 for at least 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Russian language proficiency) Develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Russian in a variety of social situations.
2. Develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Demonstrate insight into Russian culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
SLAVIC 101	4	SLAVIC 102	4
LITTRANS 233 or 234	3	LITTRANS 234	3
Communication A	3	Quantitative Reasoning A	3
Science Breadth	3	Social Science Breadth	3
		Elective	3
	<b>13</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
SLAVIC 203	4	SLAVIC 204	4
INTER-LS 210	1	LITTRANS 202 or 204 (204 meets Comm B requirement)	3
LITTRANS 201 or 203 (203 meets Comm B requirement)	3	LITTRANS/GERMAN/ JEWISH 279 (meets Ethnic Studies requirement)	3
Quantitative Reasoning B	3	1/A COMP SCI, MATH, or STAT (if BS)	4
Biological Science Breadth	3		
	<b>14</b>		<b>14</b>

**Third Year**

Fall	Credits	Spring	Credits
SLAVIC 275 (meets Humanities requirement)	3	SLAVIC 276 (meets Humanities requirement)	3
SLAVIC 315	3	SLAVIC 316	3
Physical Science Breadth	3	Science Breadth	3
Electives	5	Social Science Breadth Electives	3
			6
	<b>14</b>		<b>18</b>

**Fourth Year**

Fall	Credits	Spring	Credits
SLAVIC 321	3	Russian Capstone	3
Russian Elective	3	Russian Elective	3
Social Science Breadth	3	Social Science Breadth	3
Electives	7	Electives	6
	<b>16</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING AND CAREERS**

One unit (year) of high school coursework is roughly equivalent to one semester of college work; however, all incoming students who want to continue their study of Russian are assigned to courses according to the results of a placement test. These tests may admit a student to a more advanced course, but give no credit toward graduation. However, retroactive credits can be granted in recognition of previous language study. L&S retro credit Policy (<https://kb.wisc.edu/lis/page.php?id=23736>).

Language placement tests are advised for any student with previous knowledge or experience with Russian. The test consists of a one-on-one appointment with a professor, with written, oral, and reading comprehension components.

The Placement Advisor for Russian is Anna Tumarkin. Please contact the Undergraduate Advisor to request placement.

Students might also want to consider the Russian Flagship program, a federally-funded intensive language learning program open to students of all majors. The Flagship program is a separate application and students can complete it in addition to the Russian major, or may complete it alongside another major entirely.

For other undergraduate concerns or to declare the major, please contact our undergraduate coordinator:

Joanna Schuth, Undergraduate Advisor

[jschuth@wisc.edu](mailto:jschuth@wisc.edu)

836 Van Hise

Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.lis.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE****PROFESSORS**

David Danaher\*

Karen Evans-Romaine

Irina Shevelenko

**ASSOCIATE PROFESSORS**

Andrew Reynolds

**ASSISTANT PROFESSORS**

Maksim Hanukai

Kirill Ospovat

Marina Zilbergerts

**TEACHING FACULTY**

Jennifer Tishler

Anna Tumarkin

**LECTURERS**

Sara Karpukhin

Alexandra Walter

\*unit head

**RUSSIAN, B.S.**

Russian is a National Security Education Program Critical Language. Students in the Russian major not only learn the language but become

familiar with the treasure of Russian cultural heritage in literature, visual art, theater, and music.

The Russian major is designed to meet the needs of students who begin to study the language in college, as well as those who began to study the language in high school. With a major in Russian you will be able to converse with ease in most common situations at work, school, social events, and everyday duties, as well as read and write at an advanced level. In addition, you will gain an appreciation and understanding of Russian culture and politics, past and present, and the literary and artistic traditions that Russian society holds dear.

## HOW TO GET IN

To declare a major in Russian, students should make an appointment with or email the Russian undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Russian Language:</b>		<b>15</b>
SLAVIC 275 & SLAVIC 276 or SLAVIC 279	Third Year Russian I and Third Year Russian II Intensive Third Year Russian	
SLAVIC 315	Russian Language and Culture I	
SLAVIC 316	Russian Language and Culture II	
SLAVIC 321	Fourth Year Russian I	
<b>Foundations in Russian Literature &amp; Culture (complete three distinct courses):</b>		
<i>Literature Survey (complete one):</i>		<b>4</b>
LITTRANS 203 or LITTRANS 20	Survey of 19th and 20th Century Russian Literature in Translation I or Survey of 19th and 20th Century Russian Literature in Translation II	
<i>Literature &amp; Culture (complete two):</i>		<b>6</b>
LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	

or LITTRANS 20	Survey of 19th and 20th Century Russian Literature in Translation I	
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	
or LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation II	
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	

**Capstone**

SLAVIC 465	Advanced Readings in Russian Literature & Culture	3
or SLAVIC 560	Capstone Seminar in Russian Literature and Culture	

**Electives**

*Intermediate or Advanced Elective (complete one):* 3

SLAVIC 309	Russian Area Studies on Study Abroad	
SLAVIC 310	Topics in Russian: Study Abroad	
SLAVIC/ LITTRANS 366	Intermediate Special Topics in Russian Literature & Culture	
SLAVIC 433	History of Russian Culture	
SLAVIC 434	Contemporary Russian Culture	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	
SLAVIC/ THEATRE 532	History of Russian Theatre	
SLAVIC 555	Advanced Russian Listening & Speaking	
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	
LITTRANS 220	Chekhov: The Drama of Modern Life	
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	
LITTRANS 222	Dostoevsky in Translation	
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	
LITTRANS 224	Tolstoy in Translation	
LITTRANS 240	Soviet Literature in Translation	
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context	

*Additional Elective (complete one):* 3

*Any Intermediate or Advanced-level course from the list above, or:*

SLAVIC/ LITTRANS 238	Literature and Revolution	
SLAVIC 239	Performance and Power	
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	
SLAVIC/ LITTRANS 266	Elementary Special Topics in Russian Literature & Culture	

LITTRANS 207	Slavic Science Fiction through Literature and Film
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**Total Credits****34****RESIDENCE AND QUALITY OF WORK**

- Minimum 2.000 GPA in all major courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the major, in residence
- At least 15 credits in the major, taken on campus

**UPPER-LEVEL COURSES IN THE MAJOR**

The following courses are upper-level in the Russian major:

Code	Title	Credits
SLAVIC 275	Third Year Russian I	
SLAVIC 276	Third Year Russian II	
SLAVIC 309	Russian Area Studies on Study Abroad	
SLAVIC 310	Topics in Russian: Study Abroad	
SLAVIC 315	Russian Language and Culture I	
SLAVIC 316	Russian Language and Culture II	
SLAVIC 321	Fourth Year Russian I	
SLAVIC 322	Fourth Year Russian II	
SLAVIC 440	Soviet Literature	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC 465	Advanced Readings in Russian Literature & Culture	
SLAVIC/ THEATRE 532	History of Russian Theatre	
SLAVIC 555	Advanced Russian Listening & Speaking	
SLAVIC 560	Capstone Seminar in Russian Literature and Culture	
SLAVIC 681	Senior Honors Thesis	
SLAVIC 682	Senior Honors Thesis	
SLAVIC 699	Directed Study	
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	
LITTRANS 220	Chekhov: The Drama of Modern Life	
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	
LITTRANS 222	Dostoevsky in Translation	
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	
LITTRANS 224	Tolstoy in Translation	

**HONORS IN THE MAJOR**

Students may declare Honors in the Major in consultation with the Russian advisor.

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in all courses in the major
- Complete 18 credits in the major taken for Honors, taken on campus, with grades of B or better in the following:
  - SLAVIC 275, SLAVIC 276, SLAVIC 315, SLAVIC 316, SLAVIC 321 and SLAVIC 465 or SLAVIC 560
- Complete a Senior Thesis in SLAVIC 681 and SLAVIC 682 for at least 6 credits

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Russian language proficiency) Develop speaking, listening, writing, and reading skills and integrate these skills to communicate in Russian in a variety of social situations.
2. Develop and apply writing skills and oral communication skills appropriate to liberal arts education in the context of Slavic studies.
3. Develop and apply critical thinking skills inherent in the liberal arts tradition in the context of Slavic studies.
4. Analyze and interpret works of literature in themselves and in the context of specific historical and cultural conditions.
5. Demonstrate insight into Russian culture and civilization and apply this knowledge across disciplines such as history, political science, the arts, geography, business, economics, sociology, the sciences, gender studies, philosophy, law, folklore.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
SLAVIC 101		4 SLAVIC 102	4
LITTRANS 233 or 234		3 LITTRANS 234	3
Communication A		3 Quantitative Reasoning A	3
Science Breadth		3 Social Science Breadth	3
		Elective	3
		<b>13</b>	<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
SLAVIC 203		4 SLAVIC 204	4
INTER-LS 210		1 LITTRANS 202 or 204 (204 meets Comm B requirement)	3
LITTRANS 201 or 203 (203 meets Comm B requirement)		3 LITTRANS/GERMAN/ JEWISH 279 (meets Ethnic Studies requirement)	3
Quantitative Reasoning B		3 I/A COMP SCI, MATH, or STAT (if BS)	4
Biological Science Breadth		3	
		<b>14</b>	<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
SLAVIC 275 (meets Humanities requirement)		3 SLAVIC 276 (meets Humanities requirement)	3
SLAVIC 315		3 SLAVIC 316	3
Physical Science Breadth		3 Science Breadth	3
Electives		5 Social Science Breadth	3
		Electives	6
		<b>14</b>	<b>18</b>

#### Fourth Year

Fall	Credits	Spring	Credits
SLAVIC 321		3 Russian Capstone	3
Russian Elective		3 Russian Elective	3
Social Science Breadth		3 Social Science Breadth	3
Electives		7 Electives	6
		<b>16</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING AND CAREERS

One unit (year) of high school coursework is roughly equivalent to one semester of college work; however, all incoming students who want to continue their study of Russian are assigned to courses according to the results of a placement test. These tests may admit a student to a more advanced course, but give no credit toward graduation. However, retroactive credits can be granted in recognition of previous language study. L&S retro credit Policy (<https://kb.wisc.edu/lis/page.php?id=23736>).



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The Placement Advisor for Russian is Anna Tumarkin. Please contact the Undergraduate Advisor to request placement.

Students might also want to consider the Russian Flagship program, a federally-funded intensive language learning program open to students of all majors. The Flagship program is a separate application and students can complete it in addition to the Russian major, or may complete it alongside another major entirely.

For other undergraduate concerns or to declare the major, please contact our undergraduate coordinator:

Joanna Schuth, Undergraduate Advisor  
jschuth@wisc.edu  
836 Van Hise

Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

Karen Evans-Romaine  
Irina Shevelenko

## ASSOCIATE PROFESSORS

Andrew Reynolds

## ASSISTANT PROFESSORS

Maksim Hanukai  
Kirill Ospovat  
Marina Zilbergerts

## TEACHING FACULTY

Jennifer Tishler  
Anna Tumarkin

## LECTURERS

Sara Karpukhin  
Alexandra Walter

*\*unit head*

## SCANDINAVIAN STUDIES, B.A.

The Scandinavian Studies program provides the opportunity to learn the literature, folklore, politics, and culture of the Nordic countries in the original languages and in English translation. Partly in cooperation with other departments, we offer courses in Scandinavian language, history, culture, social institutions, gender and women's studies, geography, arts, archaeology, myths, and folklore.

Students also may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available.

Students may apply to Norden House, a residential language immersion program for UW students studying Norwegian, Danish or Swedish, housed in Adams Residence Hall.

Scholars who major in the field are equipped for careers in the countries that are the world leaders in gender equity, societal welfare, and 21st century business practices, as well as a range of careers including education, law, international trade, translation, civil service, non-profits, the arts, linguistics, literature, environmental sciences, conservation, diplomacy, and more.

## HOW TO GET IN

Student interested in pursuing an undergraduate major in Scandinavian studies should contact the advisor by email or make an appointment through Starfish.

Students declared in the Scandinavian Studies certificate may not be declared in the Scandinavian Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## PEOPLE

### PROFESSORS

David Danaher\*

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
-------------	--

Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
-----------------	--

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Language (complete one):</b>		<b>3-4</b>
SCAND ST 251	Readings in Norwegian Literature	
SCAND ST 261	Readings in Swedish Literature	
SCAND ST 271	Readings in Danish Literature	
<b>Literature &amp; Culture (complete one course from each area):</b>		<b>18</b>
<i>Language, Culture, and History (complete at least one course):</i>		
SCAND ST 250	Introduction to Scandinavia	
SCAND ST/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	Nordic Mythology	
SCAND ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 345	The Nordic Storyteller	
SCAND ST 348	The Second World War in Nordic Culture	
SCAND ST 355	Autobiography	
SCAND ST 401	Contemporary Scandinavian Languages	
SCAND ST/ MEDIEVAL 407	Introductory Old Norse	
SCAND ST/ MEDIEVAL 408	Intermediate Old Norse	
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	
SCAND ST 410	Introduction to Scandinavian Linguistics	
SCAND ST 411	Areas in Scandinavian Literature	

SCAND ST 415	History of the Scandinavian Languages II: Standard Languages
SCAND ST/ MEDIEVAL 430	The Vikings
SCAND ST/ HISTORY 431	History of Scandinavia to 1815
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore
SCAND ST 439	Nordic Filmmakers
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations
SCAND ST 476	Scandinavian Life and Civilization II
SCAND ST 496	The Scandinavian Heritage in America
SCAND ST 510	Topics in Scandinavian Linguistics
SCAND ST 511	Paleography and Philology - Old Norse
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
SCAND ST 630	Fundamentals of Bibliography and Research

*Modern Scandinavian Literature (complete at least one course):*

SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
SCAND ST 419	Scandinavian Children's Literature
SCAND ST 421	Advanced Topics in Nordic Studies (1 Norwegian-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (1 Norwegian-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (2 Finnish-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (4 Hagiography in the North)
SCAND ST 422	The Drama of Henrik Ibsen
SCAND ST 423	The Drama of August Strindberg
SCAND ST 424	Nineteenth-Century Scandinavian Fiction
SCAND ST 426	Kierkegaard and Scandinavian Literature

SCAND ST 427	Contemporary Scandinavian Literature
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
SCAND ST 436	Topics in Scandinavian Literature
SCAND ST 450	Scandinavian Decadence in its European Context
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors
SCAND ST 520	Special Topics
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890

**Total Credits****21****RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all SCAND ST and all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major<sup>1</sup>
- 15 credits in SCAND ST, taken on campus

**1**

SCAND ST 373 to SCAND ST 699 are considered upper level in the major.

**HONORS IN THE MAJOR**

Students may declare Honors in the Major in consultation with the Scandinavian Studies advisor(s).

**HONORS IN THE MAJOR REQUIREMENTS**

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all SCAND ST and all major courses
- Complete at least 8 Honors credits from courses numbered SCAND ST 373 and higher
- Complete either SCAND ST 634 or SCAND ST 635 with a grade of B or better
- Complete a two-semester Senior Honors Thesis in SCAND ST 681 and SCAND ST 682, for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Reach Intermediate–High / Advanced–Low language proficiency in speaking, reading, and writing, according to ACTFL guidelines, through five semesters of a Nordic language.
2. Familiarize the students with three Nordic languages (Danish, Norwegian, and Swedish) to complement their knowledge of their chosen language via the 6th semester Scandinavian Language class (SCAND ST 401).
3. Demonstrate understanding in a global context in a field of study covering literature, history, area studies, folklore, or philology classes.
4. Select and utilize the most appropriate methods of study and inquiry within the content of the classes taken.
5. Evaluate and respond to information pertaining to the classes taken, showing clear analytical and critical thinking skills.
6. Communicate clearly in appropriate ways in the classes taken.
7. If possible, benefit from a semester or year's study abroad leading to a consolidation and enhancement of the above mentioned skills.
8. Recognize and apply principles of ethical and professional conduct.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
SCAND ST 101, 111, or 121	4	SCAND ST 102, 112, or 122	4
SCAND ST 476	4	SCAND ST/ FOLKLORE 443 (meets Ethnic Studies requirement)	4
Scandinavian Studies FIG Course	4	Social Science Breadth	4

Communication A	3	Quantitative Reasoning A	3–4
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
SCAND ST 201, 211, or 221	4	SCAND ST 202, 212, or 222	4
SCAND ST 475 (enroll in Communication B section)	4	GNS/FOLKLORE 200	3
Biological Science Breadth	3	Physical Science Breadth	3
INTER-LS 210	1	Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
SCAND ST 251, 261, or 271	3–4	Study Abroad in Denmark, Iceland, Norway, or Sweden <sup>1</sup>	
Quantitative Reasoning B	3–4	Social Science Breadth	8
Science Breadth	3	Electives	8
Elective	4		
	<b>14</b>		<b>16</b>

#### Senior

Fall	Credits	Spring	Credits
Elective in Major: Choose any in Language, Culture, and History	4	SCAND ST 401	3
Elective in Major: Choose any in Modern Scandinavian Literature	4	Electives	12
Electives	6		
	<b>14</b>		<b>15</b>

#### Total Credits 120

<sup>1</sup>

Transfer credit will vary based on courses completed while abroad.

## ADVISING AND CAREERS

### ADVISING AND CAREERS

For advising and placement, please contact our undergraduate advisor:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 836 Van Hise Hall  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

Students who transfer to UW after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

**Note:** SCAND ST 302 (<https://guide.wisc.edu/search/?P=SCAND%20ST%20302>) Intensive Finnish II satisfies the 3rd semester of the Finnish

language sequence for the purpose of meeting the College of Letters & Science foreign language requirement.

**Majors should see the advisor during the semester before their last semester.** Prospective majors are urged to consult the undergraduate advisor about their program at the first possible opportunity.

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608-262-3921  
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## L&S CAREER RESOURCES

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In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

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Todd Michelson-Ambelang

\* *unit head*

## SCANDINAVIAN STUDIES, B.S.

The Scandinavian Studies program provides the opportunity to learn the literature, folklore, politics, and culture of the Nordic countries in the original languages and in English translation. Partly in cooperation with other departments, we offer courses in Scandinavian language, history, culture, social institutions, gender and women's studies, geography, arts, archaeology, myths, and folklore.

Students also may continue graduate studies toward an M.A. in Scandinavian philology, literature, or area studies, and toward a Ph.D. in Scandinavian literature, philology, or folklore.

The program strongly encourages a junior-year abroad in a Nordic country; several exchange programs are available.

Students may apply to Norden House, a residential language immersion program for UW students studying Norwegian, Danish or Swedish, housed in Adams Residence Hall.

Scholars who major in the field are equipped for careers in the countries that are the world leaders in gender equity, societal welfare, and 21st century business practices, as well as a range of careers including education, law, international trade, translation, civil service, non-profits, the arts, linguistics, literature, environmental sciences, conservation, diplomacy, and more.

## HOW TO GET IN

Student interested in pursuing an undergraduate major in Scandinavian studies should contact the advisor by email or make an appointment through Starfish.

Students declared in the Scandinavian Studies certificate may not be declared in the Scandinavian Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Language (complete one):</b>		<b>3–4</b>
SCAND ST 251	Readings in Norwegian Literature	
SCAND ST 261	Readings in Swedish Literature	
SCAND ST 271	Readings in Danish Literature	
<b>Literature &amp; Culture (complete one course from each area):</b>		<b>18</b>
<i>Language, Culture, and History (complete at least one course):</i>		
SCAND ST 250	Introduction to Scandinavia	
SCAND ST/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	Nordic Mythology	
SCAND ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 345	The Nordic Storyteller	
SCAND ST 348	The Second World War in Nordic Culture	
SCAND ST 355	Autobiography	
SCAND ST 401	Contemporary Scandinavian Languages	
SCAND ST/ MEDIEVAL 407	Introductory Old Norse	
SCAND ST/ MEDIEVAL 408	Intermediate Old Norse	
SCAND ST/ MEDIEVAL 409	Survey of Old Norse–Icelandic Literature	
SCAND ST 410	Introduction to Scandinavian Linguistics	
SCAND ST 411	Areas in Scandinavian Literature	
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	

SCAND ST/ MEDIEVAL 430	The Vikings
SCAND ST/ HISTORY 431	History of Scandinavia to 1815
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore
SCAND ST 439	Nordic Filmmakers
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations
SCAND ST 476	Scandinavian Life and Civilization II
SCAND ST 496	The Scandinavian Heritage in America
SCAND ST 510	Topics in Scandinavian Linguistics
SCAND ST 511	Paleography and Philology - Old Norse
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
SCAND ST 630	Fundamentals of Bibliography and Research

*Modern Scandinavian Literature (complete at least one course):*

SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
SCAND ST 419	Scandinavian Children's Literature
SCAND ST 421	Advanced Topics in Nordic Studies (1 Norwegian-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (1 Norwegian-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (2 Finnish-American Folksong)
SCAND ST 421	Advanced Topics in Nordic Studies (4 Hagiography in the North)
SCAND ST 422	The Drama of Henrik Ibsen
SCAND ST 423	The Drama of August Strindberg
SCAND ST 424	Nineteenth-Century Scandinavian Fiction
SCAND ST 426	Kierkegaard and Scandinavian Literature
SCAND ST 427	Contemporary Scandinavian Literature

SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
SCAND ST 436	Topics in Scandinavian Literature
SCAND ST 450	Scandinavian Decadence in its European Context
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors
SCAND ST 520	Special Topics
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890

**Total Credits****21****RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all SCAND ST and all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major<sup>1</sup>
- 15 credits in SCAND ST, taken on campus

**1**

SCAND ST 373 to SCAND ST 699 are considered upper level in the major.

**HONORS IN THE MAJOR**

Students may declare Honors in the Major in consultation with the Scandinavian Studies advisor(s).

**HONORS IN THE MAJOR REQUIREMENTS**

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 in all SCAND ST and all major courses
- Complete at least 8 Honors credits from courses numbered SCAND ST 373 and higher
- Complete either SCAND ST 634 or SCAND ST 635 with a grade of B or better
- Complete a two-semester Senior Honors Thesis in SCAND ST 681 and SCAND ST 682, for a total of 6 credits.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

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## LEARNING OUTCOMES

1. Reach Intermediate–High / Advanced–Low language proficiency in speaking, reading, and writing, according to ACTFL guidelines, through five semesters of a Nordic language.
2. Familiarize the students with three Nordic languages (Danish, Norwegian, and Swedish) to complement their knowledge of their chosen language via the 6th semester Scandinavian Language class (SCAND ST 401).
3. Demonstrate understanding in a global context in a field of study covering literature, history, area studies, folklore, or philology classes.
4. Select and utilize the most appropriate methods of study and inquiry within the content of the classes taken.
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7. If possible, benefit from a semester or year's study abroad leading to a consolidation and enhancement of the above mentioned skills.
8. Recognize and apply principles of ethical and professional conduct.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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#### Freshman

Fall	Credits	Spring	Credits
SCAND ST 101, 111, or 121	4	SCAND ST 102, 112, or 122	4
SCAND ST 476	4	SCAND ST/ FOLKLORE 443 (meets Ethnic Studies requirement)	4
Scandinavian Studies FIG Course	4	Social Science Breadth	4

Communication A	3	Quantitative Reasoning A	3–4
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
SCAND ST 201, 211, or 221	4	SCAND ST 202, 212, or 222	4
SCAND ST 475 (enroll in Communication B section)	4	GNS/FOLKLORE 200	3
Biological Science Breadth	3	Physical Science Breadth	3
INTER-LS 210	1	Science Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
SCAND ST 251, 261, or 271	3–4	Study Abroad in Denmark, Iceland, Norway, or Sweden <sup>1</sup>	
Quantitative Reasoning B	3–4	Social Science Breadth	8
Science Breadth	3	Electives	8
Elective	4		
	<b>14</b>		<b>16</b>

#### Senior

Fall	Credits	Spring	Credits
Elective in Major: Choose any in Language, Culture, and History	4	SCAND ST 401	3
Elective in Major: Choose any in Modern Scandinavian Literature	4	Electives	12
Electives	6		
	<b>14</b>		<b>15</b>

#### Total Credits 120

1

Transfer credit will vary based on courses completed while abroad.

## ADVISING AND CAREERS

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 836 Van Hise Hall  
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**Note:** SCAND ST 302 (<https://guide.wisc.edu/search/?P=SCAND%20ST%20302>) Intensive Finnish II satisfies the 3rd semester of the Finnish



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## SCANDINAVIAN STUDIES, CERTIFICATE

**Admissions to the Scandinavian Studies Certificate have been suspended as of fall 2023 and will be discontinued as of fall 2027. If you have any questions, please contact the department.**

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Scholars with knowledge of Scandinavian languages and cultures are equipped for careers in the countries that are the world leaders in gender equity, societal welfare, and 21st century business practices, as well as a range of careers including education, law, international trade, translation, civil service, non-profits, the arts, linguistics, literature, environmental sciences, conservation, diplomacy, and more.

## HOW TO GET IN

**Admissions to the Scandinavian Studies Certificate have been suspended as of fall 2023 and will be discontinued as of fall 2027. If you have any questions, please contact the department.**

Students declared in the Scandinavian Studies major are not eligible to declare the Certificate in Scandinavian Studies.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The Scandinavian studies certificate requires 18 credits of SCAND ST. 9 credits must be taken at the 300 level or higher. Select at least one course from each of the following areas:

### LANGUAGES

Code	Title	Credits
<b>Danish:</b>		
SCAND ST 121	First Semester Danish	4
SCAND ST 122	Second Semester Danish	4

SCAND ST 221	Second Year Danish	4	SCAND ST 421	Advanced Topics in Nordic Studies	1-3
SCAND ST 222	Second Year Danish	4	SCAND ST/ MEDIEVAL 430	The Vikings	4
SCAND ST 271	Readings in Danish Literature	3-4	SCAND ST/ HISTORY 431	History of Scandinavia to 1815	3
<b>Finnish:</b>					
SCAND ST 131	First Semester Finnish	4	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3
SCAND ST 132	Second Semester Finnish	4	SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation	3
<b>Norwegian:</b>					
SCAND ST 101	First Semester Norwegian	4	SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia	3
SCAND ST 102	Second Semester Norwegian	4	SCAND ST 439	Nordic Filmmakers	3
SCAND ST 201	Second Year Norwegian	4	SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	3
SCAND ST 202	Second Year Norwegian	4	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
SCAND ST 251	Readings in Norwegian Literature	3-4	SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4
<b>Sami:</b>					
SCAND ST 404	Languages of Northern Europe	2-4	SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
<b>Swedish:</b>					
SCAND ST 111	First Semester Swedish	4	SCAND ST 476	Scandinavian Life and Civilization II	4
SCAND ST 112	Second Semester Swedish	4	SCAND ST 496	The Scandinavian Heritage in America	3
SCAND ST 211	Second Year Swedish	4	SCAND ST 510	Topics in Scandinavian Linguistics	3
SCAND ST 212	Second Year Swedish	4	SCAND ST 511	Paleography and Philology - Old Norse	3
SCAND ST 261	Readings in Swedish Literature	3-4	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
			SCAND ST 630	Fundamentals of Bibliography and Research	3

## LANGUAGE, CULTURE, AND HISTORY COURSES

Code	Title	Credits	Code	Title	Credits
SCAND ST 250	Introduction to Scandinavia	3	SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
SCAND ST 296	The Scandinavian Heritage in America	3	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
SCAND ST/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	Nordic Mythology	3	SCAND ST 419	Scandinavian Children's Literature	4
SCAND ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 345	The Nordic Storyteller	3	SCAND ST 411	Areas in Scandinavian Literature	1
SCAND ST 348	The Second World War in Nordic Culture	3	SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4	SCAND ST 422	The Drama of Henrik Ibsen	4
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SCAND ST 423	The Drama of August Strindberg	4
SCAND ST 401	Contemporary Scandinavian Languages	3	SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4
SCAND ST/ MEDIEVAL 407	Introductory Old Norse	3	SCAND ST 426	Kierkegaard and Scandinavian Literature	3
SCAND ST/ MEDIEVAL 408	Intermediate Old Norse	3	SCAND ST 427	Contemporary Scandinavian Literature	4
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	3	SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	3
SCAND ST 410	Introduction to Scandinavian Linguistics	3	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	3	SCAND ST 436	Topics in Scandinavian Literature	3-4
SCAND ST 419	Scandinavian Children's Literature	4			

SCAND ST 450	Scandinavian Decadence in its European Context	3-4
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	4
SCAND ST 520	Special Topics	3
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3

## RESIDENCE AND QUALITY OF WORK

- At least a 2.000 GPA is required among all courses eligible for the certificate.
- At least 9 credits must be taken in residence. A UW-Madison-sponsored study abroad program applies as in-residence credit.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate understanding in a global context in a field of study covering literature, history, area studies, folklore, or philology classes.
2. Select and utilize the most appropriate methods of study and inquiry within the content of the classes taken.
3. Evaluate and respond to information pertaining to the classes taken, showing clear analytical and critical thinking skills.
4. Communicate clearly in appropriate ways in the classes taken.
5. Recognize and apply principles of ethical and professional conduct.

### ADVISING AND CAREERS

## ADVISING AND CAREERS

For advising and placement, please contact our undergraduate advisor:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 836 Van Hise Hall  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

Students who transfer to UW after a year abroad should contact the undergraduate advisor as early as possible to schedule a placement test.

**Note:** SCAND ST 302 (<https://guide.wisc.edu/search/?P=SCAND%20ST%20302>) Intensive Finnish II satisfies the 3rd semester of the Finnish language sequence for the purpose of meeting the College of Letters & Science foreign language requirement.

**Majors should see the advisor during the semester before their last semester.** Prospective majors are urged to consult the undergraduate advisor about their program at the first possible opportunity.

For additional career advising, please contact:

SuccessWorks at the College of Letters & Science  
 711 State Street, Suite 300  
 Madison, WI 53703  
 608-262-3921  
[SuccessWorks@ls.wisc.edu](mailto:SuccessWorks@ls.wisc.edu)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

#### PROFESSOR

Susan Brantly  
 Thomas DuBois  
 Kirsten Wolf\*

#### ASSOCIATE PROFESSOR

Dean Krouk

#### ASSISTANT PROFESSOR

Claus Andersen  
 Benjamin Mier-Cruz  
 Liina-Ly Roos

#### TEACHING FACULTY

B. Marcus Cederström

Scott A. Mellor

**LECTURER**Ida Moen Johnson  
Helen Durst**ASSOCIATE LECTURER**

Todd Michelson-Ambelang

\* unit head

# SLAVIC STUDIES, CERTIFICATE

In the Slavic Studies Certificate, you have the opportunity to pair a strong language study of Russian, Polish, Czech, or Ukrainian with an contextual, integrative regional view to complement your studies in political science, international studies, business, history, or many other areas. Gain a critically informed appreciation and understanding of the complex, interwoven nature of the region's historical trajectories, politics, literature, and culture, with the flexibility to choose to focus on the area or culture of your special interest, or take a comparative approach to the region as a whole.

## HOW TO GET IN

Students may declare the certificate by contacting the academic advisor.

Students declared in the Russian or Polish majors are not eligible to declare the Slavic certificate. Students declared in the Certificate in Russian, East European and Central Asian Studies at the Undergraduate Level are not eligible to declare the Slavic certificate.

## REQUIREMENTS

The Slavic Studies Certificate consists of 19 credits from the following requirements:

Code	Title	Credits
<b>Languages:</b>		
<i>Complete one sequence:</i>		
SLAVIC 203 & SLAVIC 204	Third Semester Russian and Fourth Semester Russian	6
SLAVIC 117 & SLAVIC 118	Intensive Second Year Russian and Intensive Second Year Russian	
SLAVIC 207 & SLAVIC 208	Third Semester Polish and Fourth Semester Polish	
SLAVIC 217 & SLAVIC 218	Third Semester Czech and Fourth Semester Czech	
SLAVIC 275 & SLAVIC 276	Third Year Russian I and Third Year Russian II	
SLAVIC 277 & SLAVIC 278	Third Year Polish I and Third Year Polish II	
SLAVIC 331 & SLAVIC 332	Fourth Year Polish I and Fourth Year Polish II	
SLAVIC 321 & SLAVIC 322	Fourth Year Russian I and Fourth Year Russian II	

SLAVIC 321 & SLAVIC 465 Fourth Year Russian I and Advanced Readings in Russian Literature & Culture

**Survey Courses - complete one: 4**

SLAVIC/GEOG/ HISTORY/ POLI SCI 253 Russia: An Interdisciplinary Survey

SLAVIC/GEOG/ HISTORY/ POLI SCI 254 Eastern Europe: An Interdisciplinary Survey

**Comparative Studies Courses - complete one: 3**

LITTRANS 207 Slavic Science Fiction through Literature and Film

SLAVIC/ FOLKLORE 444 Slavic and East European Folklore

**Additional coursework from any Survey or Comparative Studies course listed above, or: 6**

SLAVIC 231 History and Ethics on Film: Polish Cinema

SLAVIC 242 Literatures and Cultures of Eastern Europe

SLAVIC 245 Topics in Slavic Literatures

SLAVIC/ LITTRANS 266 Elementary Special Topics in Russian Literature & Culture

SLAVIC 307 Study Abroad in Poland

SLAVIC 308 Polish Culture and Area Studies on Study Abroad

SLAVIC 309 Russian Area Studies on Study Abroad

SLAVIC 310 Topics in Russian: Study Abroad

SLAVIC 315 Russian Language and Culture I

SLAVIC 316 Russian Language and Culture II

SLAVIC/ LITTRANS 357 Intermediate Special Topics in Slavic Languages and Literatures

SLAVIC/ LITTRANS 361 Living at the End of Times: Contemporary Polish Literature and Culture

SLAVIC/ LITTRANS 366 Intermediate Special Topics in Russian Literature & Culture

SLAVIC 433 History of Russian Culture

SLAVIC 434 Contemporary Russian Culture

SLAVIC 465 Advanced Readings in Russian Literature & Culture

SLAVIC/ LITTRANS 467 Advanced Special Topics in Slavic Languages and Literatures

SLAVIC 470 History of Polish Literature until 1863

SLAVIC 472 History of Polish Literature after 1863

SLAVIC/ THEATRE 532 History of Russian Theatre

SLAVIC 555 Advanced Russian Listening & Speaking

SLAVIC 560 Capstone Seminar in Russian Literature and Culture

LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries
LITTRANS 220	Chekhov: The Drama of Modern Life
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
LITTRANS 222	Dostoevsky in Translation
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings
LITTRANS 224	Tolstoy in Translation
LITTRANS 229	Representation of the Jew in Eastern European Cultures
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
LITTRANS 240	Soviet Literature in Translation
LITTRANS 241	Literatures and Cultures of Eastern Europe
LITTRANS 247	Topics in Slavic Literatures in Translation
LITTRANS/ SLAVIC 266	Elementary Special Topics in Russian Literature & Culture
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
LITTRANS/ SLAVIC 357	Intermediate Special Topics in Slavic Languages and Literatures
LITTRANS/ SLAVIC 361	Living at the End of Times: Contemporary Polish Literature and Culture
LITTRANS/ SLAVIC 366	Intermediate Special Topics in Russian Literature & Culture
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context
LITTRANS/ SLAVIC 467	Advanced Special Topics in Slavic Languages and Literatures
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863
LITTRANS 473	Polish Literature (in Translation) since 1863

**Total Credits****19**

## RESIDENCE AND QUALITY OF WORK

- At least 10 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Acquire intermediate proficiency in a Slavic language (Czech, Polish, or Russian).
2. Analyze and interpret cultural products of the region (i.e., works of literature, film, etc.) in themselves and in the context of specific historical and cultural conditions.
3. Develop and apply writing skills and oral communication skills appropriate to Liberal Arts education in the context of Slavic Studies to the literatures and cultures of the region.
4. Develop and apply critical-thinking skills inherent in the Liberal Arts tradition to the literature and culture of the region.
5. Demonstrate an understanding of major approaches, concepts, and current research findings concerning the Slavic region.

## ADVISING AND CAREERS

For advising and placement, please contact our undergraduate advisor:

Joanna Schuth, Undergraduate Advisor  
 jschuth@wisc.edu (undergrad@gns.wisc.edu)  
 608-262-2090  
 836 Van Hise  
 Make an appointment through Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

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**Students should see the advisor during the semester before their last semester.** Prospective students are urged to consult the undergraduate advisor about the program at the first possible opportunity.

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SuccessWorks at the College of Letters & Science  
 711 State Street, Suite 300  
 Madison, WI 53703  
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 SuccessWorks@ls.wisc.edu

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 (<https://guide.wisc.edu/search/?P=INTER-LS%20210>) L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 (<https://guide.wisc.edu/search/?P=INTER-LS%20215>) Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

David Danaher\*  
Karen Evans-Romaine  
Irina Shevelenko

### ASSOCIATE PROFESSORS

Andrew Reynolds

### ASSISTANT PROFESSORS

Maksim Hanukai  
Kirill Ospovat  
Marina Zilbergerts

### TEACHING FACULTY

Jennifer Tishler  
Anna Tumarkin

### LECTURERS

Sara Karpukhin  
Alexandra Walter

\*unit head

## HISTORY

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](https://history.wisc.edu) (<https://history.wisc.edu/>)

### WHY STUDY HISTORY AT UW-MADISON?

History is so much more than memorizing names and dates. Are you interested in technology? Religion? The environment? Human rights? If you have a question, history can help you find an answer.

The history major at UW-Madison is a great option for people who are interested in studying (<https://history.wisc.edu/undergraduate-program/history-careers/why-history/>) *change*. History asks, "How did the world get to be this way?" and "What factors might influence where the world is heading now?" Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped—and continues to shape—global, national, and local relationships between societies and people. The skills that history majors develop are used in a wide range of careers (<https://history.wisc.edu/undergraduate-program/history-careers/>) and prepare students for graduate or professional study in fields such as law, business, medicine, public policy and much more.

History majors who are unsure of their careers can get great advice from our engaged alumni, who serve as career mentors, and by taking HISTORY 300 (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>) History at Work: Professional Skills of the Major (see the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#advisingandcareerstext>) tab for more information).

The history major can also be combined with any other major in the college of Letters & Science (L&S), anything from astronomy (<http://guide.wisc.edu/undergraduate/letters-science/astronomy/>) to zoology (<https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/zoology-bs/>). Majors that students most frequently pair with history are: economics (<http://guide.wisc.edu/undergraduate/letters-science/economics/>), English (<http://guide.wisc.edu/undergraduate/letters-science/english/>), environmental studies (<http://guide.wisc.edu/undergraduate/letters-science/environmental-studies/environmental-studies-major/>), journalism (<http://guide.wisc.edu/undergraduate/letters-science/journalism-mass-communication/>), and political science (<http://guide.wisc.edu/undergraduate/letters-science/political-science/>). History majors can also choose to add certificates in L&S or from outside the college, such as the certificates in business (<http://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>) or education and educational services (<http://guide.wisc.edu/undergraduate/education/educational-psychology/education-educational-services-certificate/>). In addition to these, some of the most common certificates for history majors are currently: criminal justice (<http://guide.wisc.edu/undergraduate/letters-science/center-law-society-justice/criminal-justice-certificate/>), global health (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>), European studies (<http://guide.wisc.edu/undergraduate/letters-science/institute-regional-international-studies/european-certificate/>), and digital studies (<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/>). The history advising team is happy to discuss ways for you to make your intellectual and career goals work as part of a four-year plan (<https://>

[guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplante](http://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplante)

## DEGREES/MAJORS/CERTIFICATES

- History, B.A. (p. 855)
- History, B.S. (p. 867)
- History, Certificate (p. 880)
- Medieval Studies, Certificate (p. 883)

## PEOPLE

Professors Boswell, Cheng, Dennis, Desan, Enke, Hansen, Hirsch, Houck, Hsia, Kantrowitz, Keller, Kleijwegt, Kodesh, Lederer, McCoy, McDonald, Michels, Mitman, Murthy, Neville, Plummer, Ratner-Rosenhagen, Reese, Roberts, Shoemaker, Sweet, Thal, Wandel, Young

Associate Professors Callaci, Chamedes, Ciancia, Gómez, Hall, Haynes, Hennessy, Iber, Kim (Charles), Kim (Monica), Kinzley, Lapina, Nelson, Taylor, Ussishkin

Assistant Professors Balto, Banerjee, Bloch, Brown, Esseissah, Glotzer, Hayes, Kennedy, Martoccio, Meléndez-Badillo, Ramírez, Stolz, Suarez, Useche, Villeneuve, Whiting, Williford

Teaching Associates Carlsson, Cullinane, Keyser, Rider, Rosenhagen

## HISTORY, B.A.

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](https://history.wisc.edu) (<https://history.wisc.edu>)

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The history major can also be combined with any other major in the college of Letters & Science (L&S), anything from astronomy ([\[guide.wisc.edu/undergraduate/letters-science/astronomy/\]\(http://guide.wisc.edu/undergraduate/letters-science/astronomy/\)\) to zoology \(<https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/zoology-bs/>\). Majors that students most frequently pair with history are: economics \(<http://guide.wisc.edu/undergraduate/letters-science/economics/>\), English \(<http://guide.wisc.edu/undergraduate/letters-science/english/>\), environmental studies \(<http://guide.wisc.edu/undergraduate/letters-science/environmental-studies/environmental-studies-major/>\), journalism \(<http://guide.wisc.edu/undergraduate/letters-science/journalism-mass-communication/>\), and political science \(<http://guide.wisc.edu/undergraduate/letters-science/political-science/>\). History majors can also choose to add certificates in L&S or from outside the college, such as the certificates in business \(<http://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>\) or education and educational services \(<http://guide.wisc.edu/undergraduate/education/educational-psychology/education-educational-services-certificate/>\). In addition to these, some of the most common certificates for history majors are currently: criminal justice \(<http://guide.wisc.edu/undergraduate/letters-science/center-law-society-justice/criminal-justice-certificate/>\), global health \(<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>\), European studies \(<http://guide.wisc.edu/undergraduate/letters-science/institute-regional-international-studies/european-certificate/>\), and digital studies \(<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/>\). The history advising team is happy to discuss ways for you to make your intellectual and career goals work as part of a four-year plan \(<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplante>\).](http://</a></p>
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## HOW TO GET IN

Students interested in declaring a history major should meet with an advisor in the history department. Information about advising and declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program/>) of the department website. There are no prerequisites for declaring the history major, and students are encouraged to declare as soon as they feel comfortable doing so.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced work Complete at least 60 credits at the intermediate or advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students may use courses from History and History of Science to meet the requirements of the History major.<sup>1</sup> A minimum of 30 credits in the major is required, including:

### CHRONOLOGICAL BREADTH:

History majors must complete at least one course that deals with the history of Europe and/or the Mediterranean before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence.

### CHRONOLOGICAL BREADTH COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 200	Historical Studies (Carnage in Rome)	3-4
HIST SCI 201	The Origins of Scientific Thought	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3
HISTORY 201	The Historian's Craft (Death & Public Mourning in Rome)	3-4
HISTORY 201	The Historian's Craft (Carnage in Rome)	3-4
HISTORY 201	The Historian's Craft (Religion in Roman Africa)	3-4
HISTORY 201	The Historian's Craft (Byzantine Empresses)	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY 223	Explorations in European History (H) (Roman Gladiators)	3-4
HISTORY 223	Explorations in European History (H) (Medieval Law and Society)	3-4
HISTORY 223	Explorations in European History (H) (Roman Woman)	3-4
HISTORY 223	Explorations in European History (H) (The Vikings: Fact and Fiction)	3-4
HISTORY 223	Explorations in European History (H) (Warfare in the Middle Ages)	3-4
HISTORY 223	Explorations in European History (H) (Roman Women and Men)	3-4
HISTORY 303	A History of Greek Civilization	3-4



HISTORY 307	A History of Rome	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science	3
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3

## GEOGRAPHIC BREADTH:

At minimum, history majors must complete one course from four of the eight geographic breadth categories.

## GEOGRAPHIC BREADTH: EUROPEAN HISTORY COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	Europe and the World, 1400-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 124	British History: 1688 to the Present	4
HIST SCI 201	The Origins of Scientific Thought	3
HISTORY 201	The Historian's Craft (Mercenaries & Pirates E.Mod Med)	3-4
HISTORY 201	The Historian's Craft (Visible History)	3-4
HISTORY 201	The Historian's Craft (Death & Public Mourning in Rome)	3-4
HISTORY 201	The Historian's Craft (Witches and Saints)	3-4
HISTORY 201	The Historian's Craft (Carnage in Rome)	3-4

HISTORY 201	The Historian's Craft (Dems& Dictators in Spain&Italy)	3-4
HISTORY 201	The Historian's Craft (French Revolution)	3-4
HISTORY 201	The Historian's Craft (Jul-14)	3-4
HISTORY 201	The Historian's Craft (WWII's Eastern Front)	3-4
HISTORY 201	The Historian's Craft (Belief & Unbelief in Mod Eur)	3-4
HISTORY 201	The Historian's Craft (18th-Century Europe)	3-4
HISTORY 201	The Historian's Craft (History European Sexuality)	3-4
HISTORY 201	The Historian's Craft (Byzantine Empresses)	3-4
HISTORY 201	The Historian's Craft (Weimar Rep. & Rise Of Nazism)	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4
HISTORY 223	Explorations in European History (H)	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
HISTORY 270	Eastern Europe since 1900	3-4
HISTORY 271	History Study Abroad: European History	1-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ JEWISH 310	The Holocaust	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3
HISTORY/ HIST SCI 324	Science in the Enlightenment	3
HISTORY/ ENVIR ST 328	Environmental History of Europe	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
HISTORY 351	Seventeenth-Century Europe	3-4

HISTORY 357	The Second World War	3-4
HISTORY 358	French Revolution and Napoleon	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY 417	History of Russia	3-4
HISTORY 418	History of Russia	3-4
HISTORY 419	History of Soviet Russia	3-4
HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4

## GEOGRAPHIC BREADTH: AFRICAN HISTORY COURSES

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4
HISTORY 201	The Historian's Craft (Islam in the African Diaspora)	3-4
HISTORY 201	The Historian's Craft (African Diaspora)	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/ GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4

## GEOGRAPHIC BREADTH: CENTRAL OR EAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY/ASIAN 103	Introduction to East Asian History: China	3-4
HISTORY/ASIAN 104	Introduction to East Asian History: Japan	3-4
HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4
HISTORY 201	The Historian's Craft (Shanghai Life and Crime)	3-4
HISTORY 201	The Historian's Craft (The Korean War)	3-4
HISTORY 201	The Historian's Craft (End of Empire:Occupation&P.War)	3-4
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY 340	Cultural History of Korea	3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY/ ASIAN 363	China and World War II in Asia	3-4

HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

## GEOGRAPHIC BREADTH: SOUTH OR SOUTHEAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY 450	Making of Modern South Asia	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ ASIAN 463	Topics in South Asian History	3

## GEOGRAPHIC BREADTH: LATIN AMERICAN HISTORY COURSES

Code	Title	Credits
HISTORY 201	The Historian's Craft (Afterlives of the War of 1898)	3-4
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY/INTL ST/ LACIS 242	Modern Latin America	4
HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4

## GEOGRAPHIC BREADTH: MIDDLE EASTERN HISTORY COURSES

Code	Title	Credits
HISTORY 139	Introduction to the Modern Middle East	3-4
HISTORY 201	The Historian's Craft (Tech. & Rev. in Middle East)	3-4
HISTORY 201	The Historian's Craft (The Arab Spring)	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ POLI SCI 370	Islam and Politics	3-4

## GEOGRAPHIC BREADTH: TRANSNATIONAL HISTORY COURSES

Code	Title	Credits
HIST SCI/ENVIR ST/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
HISTORY 130	An Introduction to World History	3-4
HIST SCI/HISTORY/ MED HIST 132	Bees, Trees, Germs, and Genes: A History of Biology	3
HISTORY 133	Global Military History (5000 BCE - Present)	3-4
HIST SCI 133	Biology and Society, 1950 - Today	3
HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
HISTORY 145	America and China, 1776-Today	3-4
HIST SCI 150	The Digital Age	3
HIST SCI 160	Engineering Inequality: Technology and Inequity Throughout History	3-4
HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY 201	The Historian's Craft (The Cold War & Asia)	3-4
HISTORY 201	The Historian's Craft (Explorers, Colonizers & Travel)	3-4
HISTORY 201	The Historian's Craft (Russia and America)	3-4
HISTORY 201	The Historian's Craft (Travel Writing as Hist Sources)	3-4
HISTORY 201	The Historian's Craft (Catholic Church and the World)	3-4
HISTORY 201	The Historian's Craft (The History of Contraception)	3-4
HISTORY 201	The Historian's Craft (Love in History)	3-4

HISTORY 201	The Historian's Craft (Human Rights Global History)	3-4	HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY 201	The Historian's Craft (History of Humanitarianism)	3-4	HISTORY 357	The Second World War	3-4
HISTORY 201	The Historian's Craft (Cold War on Ice: 1972)	3-4	HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	3-4
HISTORY 201	The Historian's Craft (Postcolonialism)	3-4	HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3
HISTORY 201	The Historian's Craft (Histories of Trauma)	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 201	The Historian's Craft (Immigration & the US-MX Border)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY 201	The Historian's Craft (The Cold War)	3-4	HISTORY/ ENVIR ST 465	Global Environmental History	3-4
HISTORY 201	The Historian's Craft (History Of Mass Confinement)	3-4	HISTORY/ LEGAL ST 510	Legal Pluralism	3
HISTORY 201	The Historian's Craft (Feminist Activism In The 1970s)	3-4	HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3
HISTORY 201	The Historian's Craft (1960s In Europe And America)	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY 201	The Historian's Craft (The History Of Data)	3-4	<b>GEOGRAPHIC BREADTH: U.S. HISTORY COURSES</b>		
HIST SCI 202	The Making of Modern Science	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ILS 202	Western Culture: Science, Technology, Philosophy II	3	HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	3	HISTORY 102	American History, Civil War Era to the Present	4
HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3	HISTORY/ ED POL 107	The History of the University in the West	3
HISTORY 228	Explorations in Transnational/Comparative History (Social Science)	3	HISTORY 109	Introduction to U.S. History	3-4
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)	3	HISTORY 136	Sport, Recreation, & Society in the United States	3-4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ CHICLA/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3	HIST SCI 150	The Digital Age	3
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY 274	History Study Abroad: Transnational/Global History	1-4	HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3	HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4	HISTORY/ AMER IND 190	Introduction to American Indian History	3-4
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4	HISTORY 201	The Historian's Craft (Women US History)	3-4
HIST SCI/ MED HIST 333	History of Modern Biology	3	HISTORY 201	The Historian's Craft (Recording Latinx History in WI)	3-4
HIST SCI 343	The Darwinian Revolution	3	HISTORY 201	The Historian's Craft (The Hist of WI in 100 Objects)	3-4
HIST SCI/ ENVIR ST 353	History of Ecology	3	HISTORY 201	The Historian's Craft (Your Parents' Generation)	3-4

HISTORY 201	The Historian's Craft (WI History & Material Culture)	3-4	HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY 201	The Historian's Craft (World of Alexander Hamilton)	3-4	HISTORY 401	Public History Workshop (Wisconsin 101)	3
HISTORY 201	The Historian's Craft (American Revolutions)	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY 201	The Historian's Craft (Digital History&the Amer. City)	3-4	HISTORY/ ED POL 412	History of American Education	3
HISTORY 201	The Historian's Craft (Relig & American Culture Wars)	3-4	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY 201	The Historian's Craft (Hist. of Transience in Amer.)	3-4	HISTORY 427	The American Military Experience to 1902	3-4
HISTORY 201	The Historian's Craft (The Louisiana Purchase)	3-4	HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY 201	The Historian's Craft (Heroes and Amazons in Sports)	3-4	HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
HISTORY 201	The Historian's Craft (History of Now)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY 201	The Historian's Craft (Race & Belonging In Midwest)	3-4	HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4	HISTORY/ ECON 466	The American Economy Since 1865	3-4
HIST SCI/ MED HIST 218	History of Twentieth Century American Medicine	3	HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	HISTORY 500	Reading Seminar in History (Biography in US Sports History)	3
HISTORY 221	Explorations in American History (H)	3-4	HIST SCI/ MED HIST 509	The Development of Public Health in America	3
HISTORY/ LEGAL ST 261	American Legal History to 1860	3	HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health	3
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3	HIST SCI/GEN&WS/ MED HIST 531	Women and Health in American History	3
HISTORY 272	History Study Abroad: United States History	1-4	HIST SCI/GEN&WS/ MED HIST 532	The History of the (American) Body	3
HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History	3	HIST SCI/ GEN&WS 537	Childbirth in the United States	3
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY/ JOURN 560	History of U.S. Media	4
HISTORY 306	The United States Since 1945	3-4	HISTORY/L I S 569	History of American Librarianship	3
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY 329	History of American Capitalism	4			
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4			
HISTORY 345	Military History of the United States	3-4			
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4			
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4			
HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3			
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4			

## NOTES ON HISTORY BREADTH REQUIREMENTS

- Breadth courses may be taken in any order.
- Chronological Breadth courses may also count toward a Geographic Breadth category.
- Some courses qualify for more than one Geographic Breadth area, but a course may only count for one Geographic Breadth category for the purposes of meeting the requirement.
- Topics courses (HISTORY 200, HISTORY 201, HISTORY 221, HISTORY 223, HISTORY 225, HIST SCI 280, HISTORY 283, HIST SCI 286, HIST SCI 350 & HISTORY 500) may count for Geographic and/or

Chronological Breadth. For topics courses, see the course notes for current breadth information.

- The following courses **may not be used** for breadth in the major: HISTORY 199, HIST SCI 555, HISTORY 600, HISTORY 680, HISTORY 681, HIST SCI 681, HISTORY 682, HIST SCI 682, HISTORY 690, HISTORY 691, HIST SCI 699.

## HISTORY WRITING AND RESEARCH SEQUENCE:

History majors must complete both of the following:

- Students are encouraged to complete one of HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology as early as possible.
- HISTORY 600 Advanced Seminar in History or HIST SCI 555 Undergraduate Seminar in History of Science, to be taken after satisfactory completion of either HISTORY 201 or HIST SCI 211. Enrolling in a HISTORY 600 or HIST SCI 555 seminar requires instructor consent. Available seminars can be found on the history department website (<https://history.wisc.edu/history600-seminars/>).

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in HISTORY/HISTORY of SCIENCE and all other major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits HISTORY and/or HISTORY of SCIENCE taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the History Major in consultation with the History undergraduate advisor.

### HONORS IN MAJOR REQUIREMENTS

To earn Honors in the Major in History, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall University GPA
- Earn a 3.500 GPA in all HISTORY and HISTORY of SCIENCE courses and all other major courses
- Complete at least 36 total credits in HISTORY and HISTORY of SCIENCE coursework, 21 of which must be upper-level credits in residence<sup>2</sup>
- Complete at least 15 Honors credits in HISTORY or HISTORY of SCIENCE coursework
- Complete a two-semester Senior Honors Thesis, a piece of original work of approximately forty pages, in either HISTORY 681–HISTORY 682 or HIST SCI 681–HIST SCI 682, taken in conjunction with the HISTORY 680 Honors Thesis Colloquium both semesters. The thesis must be approved by instructors in both the thesis and colloquium courses.

## FOOTNOTES

1

ILS 201 and ILS 202 may also be used to complete the requirements of the History major, including the requirements for Honors in the Major.

2

Major courses with Intermediate or Advanced Level are counted as upper-level in the History major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Find and interpret diverse evidence to explain complex changes over time
2. Communicate effectively to a variety of audiences in writing and speech
3. Use an understanding of many perspectives to work with people and solve complex problems
4. Seek to understand differing views and ways of being in the world
5. Identify the skills developed in the study of history and articulate their applicability to a variety of professional and intellectual endeavors

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
History Breadth <sup>1</sup>		4 History course for the Ethnic Studies Requirement (complete within 1st 60 credits) <sup>2</sup>	4

Communication Part A (Complete during your first year)	3 Biological Science Breadth <sup>3</sup>	3
Quantitative Reasoning Part A (complete during your first year)	3 Literature Breadth	3
Foreign Language (if necessary)	4 Elective or Course for Second Major <sup>4</sup>	4
<b>14</b>		<b>14</b>

**Second Year**

Fall	Credits	Spring	Credits
HISTORY 201 (counts toward Communication Part B) <sup>5</sup>	4	History Breadth	4
HIST SCI 211 (may be taken instead of History 201)		History Elective	3
Quantitative Reasoning Part B (I/A Comp Sci, Math, or Stats if required for the BS)	3	Physical Science Breadth	3
History Elective or Course for Second Major	3	Elective or Course for Second Major	3
Elective or Course for Second Major	3	Elective or Course for Second Major	3
Elective or Course for Second Major	3		
<b>16</b>			<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits)*		History Breadth	4
History Breadth	3	HISTORY 301 (optional)	1
HISTORY 300 <sup>6</sup>	2	Science Breadth	3
I/A Comp Sci, Math, or Stats (if required for the BS)	3	Elective or Course for Second Major	3
Literature Breadth	3	Elective or Course for Second Major	3
Elective or Course for Second Major	4		
<b>15</b>			<b>14</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Complete Remaining L&S Requirements**		History Elective	4
HISTORY 600 <sup>7</sup>	3	Science Breadth	3
HIST SCI 555 (may be taken instead of History 600)		Elective or Course for Second Major	3
Elective or Course for Second Major	4	Elective or Course for Second Major	3
Elective or Course for Second Major	4	Elective or Course for Second Major	3

Elective or Course for Second Major	4
<b>15</b>	
<b>16</b>	

**Total Credits 120**

1

The History Breadth requirements are very flexible. History majors must complete Chronological Breadth (one course) and take at least one course from four of the eight Geographical Breadth categories. A single course may count toward both Chronological and Geographic Breadth, if appropriate. (For example, a course on Ancient Rome would count toward Chronological Breadth and European History. ) HISTORY 201 may also count toward History Breadth requirements.

2

Some examples of History courses that count toward the Ethnic Studies Requirement are: HISTORY/CHICLA 152 The U.S. West Since 1850, HISTORY/ASIAN AM 160 Asian American History: Movement and Dislocation, & HISTORY/JEWISH 213 Jews and American Pop. Culture.

3

Some L&S Breadth requirements will be satisfied with History coursework. History classes will complete the additional Humanities Breadth credits (the Humanities credits that are not Literature) and may also complete Social Science Breadth.

4

History is a flexible major and can be combined with a wide range of other majors and certificates. We encourage students to be thoughtful in how they approach their elective credits, whether that means pursuing an additional major or creating an individual plan of study that draws from multiple disciplines.

5

HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology may be taken as soon as you have completed the Communication A requirement. Students should try to complete the Historian's Craft by the end of the second year.

6

History offers two optional careers courses that expose students to, and prepare them for, the wide range of careers pursued by history majors: HISTORY 300 & HISTORY 301. History at Work: Professional Skills of the Major (HISTORY 300) connects students to History alumni in different fields and helps develop essential career skills related to the value of the major. History at Work: History Internship Seminar (HISTORY 301) allows students to receive credit toward their major requirements for work associated with an internship.

7

HISTORY 600 or HIST SCI 555 may be taken at any point after a student has completed either HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology. History 600s and History of Science 555 are offered on a variety of topics every semester and they provide students with the rich experience of a small, faculty-led seminar. They may be taken for credit more than once as long as the topics are different.

\*

Students must declare a major by the time they reach 86 credits.

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Please refer to the Requirements tab in Guide for College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with a History major should enter the University with a minimum of 18 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 combined credits of Humanities, Social Science, Natural Science, or elective coursework
- 4 units of foreign language

This plan also assumes that History major coursework at UW-Madison will satisfy 6 credits of Humanities breadth (the Humanities credits that are not Literature) and 9 credits of Social Science breadth. Most History majors pursue the B.A. in History, but it is also possible to complete the B.S. and History major requirements in three years.

This plan assumes that students will complete a total of 9 credits over three summers. Summer is an opportunity to make progress toward various requirements. UW-Madison’s summer course offerings include a large number of online courses, which give students more flexibility for their summer schedules. For students on an accelerated path, summer is also great time to study abroad.

#### First Year

Fall	Credits	Spring	Credits	Summer	Credits
History Breadth <sup>1</sup>	4	HISTORY course with the Ethnic Studies designation (complete within 1st 60 credits) <sup>3</sup>	4	Elective or Course for Second Major	3
History Breadth	4	Elective or Course for Second Major <sup>4</sup>	4		

Biological Science Breadth	3	Quantitative Reasoning Part B (Intermediate or Advanced COMP SCI, MATH, or STAT if B.S.)	3
Foreign Language (if pursuing retroactive credit) <sup>2</sup>	4	Literature Breadth	3
		HISTORY 300 (optional or Elective) <sup>5</sup>	2
<b>15</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits	Summer	Credits
HISTORY 201	4	History Breadth	4	Elective (Intermediate or Advanced level) or Course for Second Major	3
HIST SCI 211 (may be taken instead of History 201)		History Breadth or Elective	4		
Social Science Breadth	3	Physical Science Breadth	4		
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Elective (Intermediate or Advanced level) or Course for Second Major	4		
Elective or Course for Second Major	4				
HISTORY 301 (optional or Elective)	1				
<b>15</b>		<b>16</b>		<b>3</b>	

#### Third Year

Fall	Credits	Spring	Credits	Summer	Credits
HISTORY 600 <sup>6</sup>	3	History Elective	3	Elective (Intermediate or Advanced level) or Course for Second Major	3
HIST SCI 555 (may be taken instead of History 600)		Literature Breadth	3		
Science Breadth	4	Science Breadth	3		



Electives (Intermediate or Advanced level) or Courses for Second Major	8 Electives (Intermediate or Advanced level) or Courses for Second Major	7	
		<b>15</b>	<b>16</b>
<b>Total Credits 102</b>			<b>3</b>

**1**

The History Breadth requirements are very flexible. Students should refer to the Requirements page for the History major for details on approved overlap between types of breadth in the major.

**2**

Even though students with 4 units of foreign language do not need to complete additional foreign language coursework, UW-Madison's retroactive credit policy (<https://kb.wisc.edu/lis/23736/>) can be very helpful for those pursuing an early graduation.

**3**

Some examples of History courses that count toward the Ethnic Studies Requirement are: HISTORY/CHICLA 152, ASIAN AM/HISTORY 160, & JEWISH/HISTORY 213.

**4**

History is a flexible major and can be combined with a wide range of other majors and certificates. For students hoping to double major and graduate early, it is especially important to work closely with academic advisors in both majors. We encourage all students to be thoughtful in how they approach their elective credits, whether that means pursuing an additional major or creating an individual plan of study that draws from multiple disciplines.

**5**

History offers two optional careers courses that expose students to, and prepare them for, the wide range of careers pursued by history majors: HISTORY 300 & HISTORY 301. History at Work: Professional Skills of the Major (HISTORY 300) connects students to History alumni in different fields and helps develop essential career skills related to the value of the major. History at Work: History Internship Seminar (HISTORY 301) allows students to receive credit toward their major requirements for work associated with an internship.

**6**

HISTORY 600 or HIST SCI 555 may be taken at any point after a student has completed either HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology. History 600s and History of Science 555 are offered on a variety of topics every semester; each course provides students with the rich experience of a small, faculty-led seminar. These seminars may be taken for credit more than once as long as the topics are different. Students who choose to pursue Honors in the History major should complete HISTORY 600 or HIST SCI 555 in Year Two so that they can write a Senior honors thesis in Year Three.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Students who are declared or interested in the history major have numerous advising resources available to them. The history advising team is comprised of professional and peer advisors who are excited to talk with students about everything from academic planning to professional

development for future careers. Information on the history advising team and how to contact an advisor can be found on our website (<https://history.wisc.edu/undergraduate-program/undergraduate-advising/>). You can set up an appointment with one of our advisors by using the History Department Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=service/64599>) page.

The history major can also be combined with any other major in the college of Letters & Science (L&S), anything from astronomy (<http://guide.wisc.edu/undergraduate/letters-science/astronomy/>) to zoology (<https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/zoology-bs/>). Majors that students most frequently pair with history are: economics (<http://guide.wisc.edu/undergraduate/letters-science/economics/>), English (<http://guide.wisc.edu/undergraduate/letters-science/english/>), environmental studies (<http://guide.wisc.edu/undergraduate/letters-science/environmental-studies/environmental-studies-major/>), journalism (<http://guide.wisc.edu/undergraduate/letters-science/journalism-mass-communication/>), and political science (<http://guide.wisc.edu/undergraduate/letters-science/political-science/>).

History majors can also choose to add certificates in L&S or from outside the college, such as the certificates in business (<http://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>) or education and educational services (<http://guide.wisc.edu/undergraduate/education/educational-psychology/education-educational-services-certificate/>). In addition to these, some of the most common certificates for history majors are currently: criminal justice (<http://guide.wisc.edu/undergraduate/letters-science/center-law-society-justice/criminal-justice-certificate/>), global health (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>), European studies (<http://guide.wisc.edu/undergraduate/letters-science/institute-regional-international-studies/european-certificate/>), and digital studies (<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/>). The history advising team is happy to discuss ways for you to make your intellectual and career goals work as part of a four-year plan (<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplante>).

### HONORS IN THE MAJOR

The Honors in the Major track in history is intended for students who are eager to experience the excitement of original historical research and who wish to graduate with the best possible undergraduate training in this discipline. Honors in the Major is especially appropriate for students who are considering graduate work in history or who want an especially advanced training in research, reasoning, and writing skills useful to a wide range of career choices.

### CAREER ADVISING

History is a rigorous but flexible major, and history majors are known for being excellent communicators and savvy researchers. Historians are experts in synthesizing disparate pieces of evidence into coherent, persuasive arguments. The real world is filled with disparate facts and incomplete sets of data, so this is a real-world skill that history alumni utilize throughout their entire careers. The department's career advisor, Christina Matta (<https://history.wisc.edu/people/matta-christina/>), helps history majors map out future career plans and connects students to a variety of resources on campus and beyond, including history alumni who volunteer as career mentors (see below for more information).

Alumni of the history department have enjoyed careers in medical research and practice; broadcast and print media; sports management; museums, archives, and libraries; finance and business, and community service and

nonprofit organizations—as well as law, academia, and many other fields. The history major provides excellent preparation for the study of law, but our students also go on to study medicine and many other graduate fields.

The centers for Pre-Law Advising (<https://prelaw.wisc.edu/>) and Pre-Health Advising (<https://prehealth.wisc.edu/>) are especially helpful resources on campus for students interested in those areas of study.

Want to see what some of our alumni have done with their history majors?

**Check out our “featured alumni” profiles on the department website.**

## HISTORY CAREERS COURSE: “HISTORY AT WORK”

History 300 (History at Work - Professional Skills of the Major) (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>) is a course intended to help history majors understand how their history degree applies to the world of work. Students explore how their history skills relate to the needs of professional employers and are guided in the process of finding and obtaining professional internships and jobs. In this course, history majors can polish their written and oral communication skills in forms appropriate for professional situations and learn from the experiences of guest speakers from a variety of fields.

## INTERNSHIPS

The Department of History recognizes the importance of internships in helping students develop professional skills and explore potential career paths. Positions can vary depending on availability and students' interests, but recent sponsors have included the Wisconsin State Historical Museum, the University of Wisconsin Archives, offices of elected officials in the Wisconsin State Legislature and United States Congress, the Milwaukee Brewers, and Community Shares of Wisconsin—just to name a few! History majors can also get academic credit in conjunction with an internship by taking History 301: History at Work - History Internship Seminar (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>).

## ALUMNI MENTORING

Like internships, networking can be a valuable tool in opening professional doors and learning more about the professional value of the history major.

The department often matches students with alumni mentors drawn from our Board of Visitors (<https://history.wisc.edu/alumni-and-friends/board-of-visitors/>) and other graduates who can help them get started building a professional network, answer questions about a specific field, provide guidance in applying for jobs or preparing for interviews, and providing general career advice.

Students interested in participating in an internship or talking with an alumni mentor should meet with Christina Matta, the department's undergraduate career advisor, to discuss their interests and possible career goals.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Boswell, Cheng, Dennis, Desan, Enke, Hansen, Hirsch, Houck, Hsia, Kantrowitz, Keller, Kleijwegt, Kodesh, Lederer, McCoy, McDonald, Michels, Mitman, Murthy, Neville, Plummer, Ratner-Rosengarten, Reese, Roberts, Shoemaker, Sweet, Thal, Wandel, Young

Associate Professors Callaci, Chamedes, Ciancia, Gómez, Hall, Haynes, Hennessy, Iber, Kim (Charles), Kim (Monica), Kinzley, Lapina, Nelson, Taylor, Ussishkin

Assistant Professors Balto, Banerjee, Bloch, Brown, Esseissah, Glotzer, Hayes, Kennedy, Martocchio, Meléndez-Badillo, Ramírez, Stolz, Suarez, Useche, Villeneuve, Whiting, Williford

Teaching Associates Carlsson, Cullinane, Keyser, Rider, Rosengarten

## WISCONSIN EXPERIENCE

### HISTORY: THE WISCONSIN EXPERIENCE

The history department is committed to integrating undergraduate historical study into the Wisconsin Experience (<https://provost.wisc.edu/wisconsin-experience/>), UW-Madison's vision for students' growth inside and outside the classroom. History majors at UW-Madison have a wide range of opportunities available to help them make the most of their major and carry the study of the past beyond the boundaries of the classroom.

### OPPORTUNITIES FOR HISTORY MAJORS

#### ARCHIVE

ARCHIVE (<https://uarchive.wordpress.com/>) is an award-winning journal of historical work published annually by the UW-Madison chapter of Phi Alpha Theta. See ARCHIVE's website (<https://uarchive.wordpress.com/>) to view past volumes and find out how you could be published.

## Phi Alpha Theta

Phi Alpha Theta (<https://history.wisc.edu/undergraduate-program/academic-opportunities-student-life/phi-alpha-theta/>) is a national history honors society whose purpose is to promote the study of history and to bring students, teachers and writers of history together in intellectual and social ways. See the UW–Madison chapter’s page for more information.

## Language and Regional/International Studies

History classes and faculty are at the center of UW–Madison’s remarkable collection of resource centers for area studies. IRIS (<https://iris.wisc.edu/>) is the umbrella organization for UW–Madison’s eight area studies programs. Students interested in these areas can combine their history major with a major in international studies (<http://www.ismajor.wisc.edu/>) or any of the area studies majors and/or certificates. UW–Madison also has one of the largest selections of language instruction (<https://languages.wisc.edu/>) in the United States.

## Study Abroad

History is a great major for students interested in studying abroad (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/history/>) due to its flexibility and because History courses are available in most study abroad programs. The History Department encourages study abroad, and our advising team is happy to help students ensure that they are meeting degree requirements while studying abroad.

## Wisconsin Historical Society

Scholars and researchers from all over the country (and world) come to the Wisconsin Historical Society (<https://www.wisconsinhistory.org/>) (WHS) to do historical research. History majors at UW–Madison simply walk across the street to make use of this world-class institution. The collections of the WHS are an amazing resource for history majors and are utilized by a wide range of our courses. History majors can also develop internships related to the WHS collections and programs. Students who are interested in the history of film and television often double major in communication arts (<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/>) and get involved with the Wisconsin Center for Film and Theater Research (<http://wcftr.commarts.wisc.edu/>).

## UW–Madison Public History Project

The University of Wisconsin–Madison’s Public History Project (<https://publichistoryproject.wisc.edu/>) is a multi-year effort to uncover and give voice to those who experienced, challenged and overcame prejudice on campus. Undergraduate history students participate in the project as part of its History Corps researchers, conducting both archival research and oral history interviews with former students, faculty and staff.

## Public Humanities Exchange for Undergraduates (HEX-U)

The Public Humanities Exchange for Undergraduates (<https://humanities.wisc.edu/public-humanities/hexu/>) (HEX-U) is a high-impact program for undergraduate students at UW–Madison who wish to make meaningful connections between their humanities scholarship and the needs of the local community through new models of social engagement. The program provides training in community partnership, mentoring during project design and implementation, and project funding to small cohorts of undergraduate scholars as they plan and implement creative community projects in partnership with Dane County organizations.

## RESOURCES AND SCHOLARSHIPS

### THE HISTORY LAB

The History Lab is a resource center for undergraduate students studying, researching, and writing about the past. It is staffed by talented and experienced graduate students from the Department of History, and UW–Madison is one of only a handful of universities in the U.S. to have this kind of history-specific writing support.

Through individual and group tutoring, the Lab focuses on honing students’ abilities to form suitable topics, conduct research, develop arguments and thesis statements, cite evidence properly, and write using an effective process. The lab is also equipped to support challenges faced by English–language learners.

For more information or to make an appointment, see the History Lab website. (<https://history.wisc.edu/undergraduate-program/the-history-lab/>)

### RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

The Department of History is committed to supporting undergraduate achievement and encourages applications for the various scholarships and research fellowships made possible by the generosity of its donors. Scholarships are designed to reward outstanding History majors and are awarded annually. Research fellowships allow undergraduates to pursue in-depth historical research under the guidance of Department of History faculty. These awards help defray research costs such as supplies and travel expenses or pay for living expenses to allow students time to craft their papers and conduct research in UW Libraries.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/academic-opportunities-student-life/scholarships-awards-and-prizes/>). Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH) (<https://wisc.academicworks.com/>).

### UNDERGRADUATE WRITING PRIZES

The history department offers an assortment of essay prizes designed to reward a broad range of undergraduate writing—from Senior Theses to term papers to specialized essays in German–Jewish history. The prizes are made possible thanks to the tremendous generosity of our alumni and former members of our faculty. The history department expresses its gratitude for their support in recognizing the achievements of our undergraduates.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/academic-opportunities-student-life/scholarships-awards-and-prizes/>).

Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH) (<https://wisc.academicworks.com/>).

## HISTORY, B.S.

3211 Mosse Humanities Building, 455 North Park Street, Madison, WI 53706; 608-263-1800; [history.wisc.edu](https://history.wisc.edu) (<https://history.wisc.edu/>)

## WHY STUDY HISTORY AT UW–MADISON?

History is so much more than memorizing names and dates. Are you interested in technology? Religion? The environment? Human rights? If you have a question, history can help you find an answer.

The history major at UW–Madison is a great option for people who are interested in studying (<https://history.wisc.edu/undergraduate-program/history-careers/why-history/>) *change*. History asks, “How did the world get to be this way?” and “What factors might influence where the world is heading now?” Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped—and continues to shape—global, national, and local relationships between societies and people. The skills that history majors develop are used in a wide range of careers (<https://history.wisc.edu/undergraduate-program/history-careers/>) and prepare students for graduate or professional study in fields such as law, business, medicine, public policy and much more.

History majors who are unsure of their careers can get great advice from our engaged alumni, who serve as career mentors, and by taking HISTORY 300 (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>) History at Work: Professional Skills of the Major (see the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#advisingandcareerstext>) tab for more information).

The history major can also be combined with any other major in the college of Letters & Science (L&S), anything from astronomy (<http://guide.wisc.edu/undergraduate/letters-science/astronomy/>) to zoology (<https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/zoology-bs/>). Majors that students most frequently pair with history are: economics (<http://guide.wisc.edu/undergraduate/letters-science/economics/>), English (<http://guide.wisc.edu/undergraduate/letters-science/english/>), environmental studies (<http://guide.wisc.edu/undergraduate/letters-science/environmental-studies/environmental-studies-major/>), journalism (<http://guide.wisc.edu/undergraduate/letters-science/journalism-mass-communication/>), and political science (<http://guide.wisc.edu/undergraduate/letters-science/political-science/>). History majors can also choose to add certificates in L&S or from outside the college, such as the certificates in business (<http://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>) or education and educational services (<http://guide.wisc.edu/undergraduate/education/educational-psychology/education-educational-services-certificate/>). In addition to these, some of the most common certificates for history majors are currently: criminal justice (<http://guide.wisc.edu/undergraduate/letters-science/center-law-society-justice/criminal-justice-certificate/>), global health (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>), European studies (<http://guide.wisc.edu/undergraduate/letters-science/institute-regional-international-studies/european-certificate/>), and digital studies (<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/>). The history advising team is happy to discuss ways for you to make your intellectual and career goals work as part of a four-year plan (<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplantext>).

## HOW TO GET IN

Students interested in declaring a history major should meet with an advisor in the history department. Information about advising and

declaring the major is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program/>) of the department website. There are no prerequisites for declaring the history major, and students are encouraged to declare as soon as they feel comfortable doing so.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

- |             |   |
|-------------|---|
| Mathematics | Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement. |
|-------------|---|

- |                  |  |
|------------------|--|
| Foreign Language | Complete the third unit of a foreign language. |
|------------------|--|

L&S Breadth Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced Coursework Complete at least 60 credits at the Intermediate or Advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

Quality of Work  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students may use courses from History and History of Science to meet the requirements of the History major.<sup>1</sup> A minimum of 30 credits in the major is required, including:

### CHRONOLOGICAL BREADTH:

History majors must complete at least one course that deals with the history of Europe and/or the Mediterranean before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence.

### CHRONOLOGICAL BREADTH COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MEDIÉVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 200	Historical Studies (Carnage in Rome)	3-4
HIST SCI 201	The Origins of Scientific Thought	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3
HISTORY 201	The Historian's Craft (Death & Public Mourning in Rome)	3-4
HISTORY 201	The Historian's Craft (Carnage in Rome)	3-4

HISTORY 201	The Historian's Craft (Religion in Roman Africa)	3-4
HISTORY 201	The Historian's Craft (Byzantine Empresses)	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY 223	Explorations in European History (H) (Roman Gladiators)	3-4
HISTORY 223	Explorations in European History (H) (Medieval Law and Society)	3-4
HISTORY 223	Explorations in European History (H) (Roman Woman)	3-4
HISTORY 223	Explorations in European History (H) (The Vikings: Fact and Fiction)	3-4
HISTORY 223	Explorations in European History (H) (Warfare in the Middle Ages)	3-4
HISTORY 223	Explorations in European History (H) (Roman Women and Men)	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HIST SCI/ MEDIÉVAL 322	Ancient and Medieval Science	3
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3

### GEOGRAPHIC BREADTH:

At minimum, history majors must complete one course from four of the eight geographic breadth categories.

## GEOGRAPHIC BREADTH: EUROPEAN HISTORY COURSES

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	Europe and the World, 1400-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 124	British History: 1688 to the Present	4
HIST SCI 201	The Origins of Scientific Thought	3
HISTORY 201	The Historian's Craft (Mercenaries & Pirates E.Mod Med)	3-4
HISTORY 201	The Historian's Craft (Visible History)	3-4
HISTORY 201	The Historian's Craft (Death & Public Mourning in Rome)	3-4
HISTORY 201	The Historian's Craft (Witches and Saints)	3-4
HISTORY 201	The Historian's Craft (Carnage in Rome)	3-4
HISTORY 201	The Historian's Craft (Dems & Dictators in Spain & Italy)	3-4
HISTORY 201	The Historian's Craft (French Revolution)	3-4
HISTORY 201	The Historian's Craft (Jul-14)	3-4
HISTORY 201	The Historian's Craft (WWII's Eastern Front)	3-4
HISTORY 201	The Historian's Craft (Belief & Unbelief in Mod Eur)	3-4
HISTORY 201	The Historian's Craft (18th-Century Europe)	3-4
HISTORY 201	The Historian's Craft (History European Sexuality)	3-4
HISTORY 201	The Historian's Craft (Byzantine Emperors)	3-4
HISTORY 201	The Historian's Craft (Weimar Rep. & Rise Of Nazism)	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4
HISTORY 223	Explorations in European History (H)	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
HISTORY 270	Eastern Europe since 1900	3-4
HISTORY 271	History Study Abroad: European History	1-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ JEWISH 310	The Holocaust	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3
HISTORY/ HIST SCI 324	Science in the Enlightenment	3
HISTORY/ ENVIR ST 328	Environmental History of Europe	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
HISTORY 351	Seventeenth-Century Europe	3-4
HISTORY 357	The Second World War	3-4
HISTORY 358	French Revolution and Napoleon	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY 417	History of Russia	3-4
HISTORY 418	History of Russia	3-4
HISTORY 419	History of Soviet Russia	3-4
HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3

HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4

## GEOGRAPHIC BREADTH: AFRICAN HISTORY COURSES

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4
HISTORY 201	The Historian's Craft (Islam in the African Diaspora)	3-4
HISTORY 201	The Historian's Craft (African Diaspora)	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4

## GEOGRAPHIC BREADTH: CENTRAL OR EAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY/ASIAN 103	Introduction to East Asian History: China	3-4
HISTORY/ASIAN 104	Introduction to East Asian History: Japan	3-4
HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4
HISTORY 201	The Historian's Craft (Shanghai Life and Crime)	3-4

HISTORY 201	The Historian's Craft (The Korean War)	3-4
HISTORY 201	The Historian's Craft (End of Empire:Occupation&P.War)	3-4
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY 340	Cultural History of Korea	3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY/ ASIAN 363	China and World War II in Asia	3-4
HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

## GEOGRAPHIC BREADTH: SOUTH OR SOUTHEAST ASIAN HISTORY COURSES

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY 450	Making of Modern South Asia	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ ASIAN 463	Topics in South Asian History	3

## GEOGRAPHIC BREADTH: LATIN AMERICAN HISTORY COURSES

Code	Title	Credits
HISTORY 201	The Historian's Craft (Afterlives of the War of 1898)	3-4
HISTORY 241	Latin America from 1780 to 1940	4

HISTORY/INTL ST/ LACIS 242	Modern Latin America	4	HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4	HISTORY 145	America and China, 1776-Today	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HIST SCI 150	The Digital Age	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HIST SCI 160	Engineering Inequality: Technology and Inequity Throughout History	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY 201	The Historian's Craft (The Cold War & Asia)	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	HISTORY 201	The Historian's Craft (Explorers, Colonizers & Travel)	3-4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3	HISTORY 201	The Historian's Craft (Russia and America)	3-4
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	HISTORY 201	The Historian's Craft (Travel Writing as Hist Sources)	3-4
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	HISTORY 201	The Historian's Craft (Catholic Church and the World)	3-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4	HISTORY 201	The Historian's Craft (The History of Contraception)	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	HISTORY 201	The Historian's Craft (Love in History)	3-4

## GEOGRAPHIC BREADTH: MIDDLE EASTERN HISTORY COURSES

Code	Title	Credits
HISTORY 139	Introduction to the Modern Middle East	3-4
HISTORY 201	The Historian's Craft (Tech. & Rev. in Middle East)	3-4
HISTORY 201	The Historian's Craft (The Arab Spring)	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ POLI SCI 370	Islam and Politics	3-4

## GEOGRAPHIC BREADTH: TRANSNATIONAL HISTORY COURSES

Code	Title	Credits
HIST SCI/ENVIR ST/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
HISTORY 130	An Introduction to World History	3-4
HIST SCI/HISTORY/ MED HIST 132	Bees, Trees, Germs, and Genes: A History of Biology	3
HISTORY 133	Global Military History (5000 BCE - Present)	3-4
HIST SCI 133	Biology and Society, 1950 - Today	3

HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
HISTORY 145	America and China, 1776-Today	3-4
HIST SCI 150	The Digital Age	3
HIST SCI 160	Engineering Inequality: Technology and Inequity Throughout History	3-4
HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY 201	The Historian's Craft (The Cold War & Asia)	3-4
HISTORY 201	The Historian's Craft (Explorers, Colonizers & Travel)	3-4
HISTORY 201	The Historian's Craft (Russia and America)	3-4
HISTORY 201	The Historian's Craft (Travel Writing as Hist Sources)	3-4
HISTORY 201	The Historian's Craft (Catholic Church and the World)	3-4
HISTORY 201	The Historian's Craft (The History of Contraception)	3-4
HISTORY 201	The Historian's Craft (Love in History)	3-4
HISTORY 201	The Historian's Craft (Human Rights Global History)	3-4
HISTORY 201	The Historian's Craft (History of Humanitarianism)	3-4
HISTORY 201	The Historian's Craft (Cold War on Ice: 1972)	3-4
HISTORY 201	The Historian's Craft (Postcolonialism)	3-4
HISTORY 201	The Historian's Craft (Histories of Trauma)	3-4
HISTORY 201	The Historian's Craft (Immigration & the US-MX Border)	3-4
HISTORY 201	The Historian's Craft (The Cold War)	3-4
HISTORY 201	The Historian's Craft (History Of Mass Confinement)	3-4
HISTORY 201	The Historian's Craft (Feminist Activism In The 1970s)	3-4
HISTORY 201	The Historian's Craft (1960s In Europe And America)	3-4
HISTORY 201	The Historian's Craft (The History Of Data)	3-4
HIST SCI 202	The Making of Modern Science	3
ILS 202	Western Culture: Science, Technology, Philosophy II	3
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	3
HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3
HISTORY 228	Explorations in Transnational/Comparative History (Social Science)	3
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)	3



HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY 150	American Histories: The Nineteenth Century	4
HISTORY/ CHICLA/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3	HIST SCI 150	The Digital Age	3
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY 274	History Study Abroad: Transnational/Global History	1-4	HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3	HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4	HISTORY/ AMER IND 190	Introduction to American Indian History	3-4
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4	HISTORY 201	The Historian's Craft (Women US History)	3-4
HIST SCI/ MED HIST 333	History of Modern Biology	3	HISTORY 201	The Historian's Craft (Recording Latinx History in WI)	3-4
HIST SCI 343	The Darwinian Revolution	3	HISTORY 201	The Historian's Craft (The Hist of WI in 100 Objects)	3-4
HIST SCI/ ENVIR ST 353	History of Ecology	3	HISTORY 201	The Historian's Craft (Your Parents' Generation)	3-4
HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3	HISTORY 201	The Historian's Craft (WI History & Material Culture)	3-4
HISTORY 357	The Second World War	3-4	HISTORY 201	The Historian's Craft (World of Alexander Hamilton)	3-4
HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	3-4	HISTORY 201	The Historian's Craft (American Revolutions)	3-4
HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3	HISTORY 201	The Historian's Craft (Digital History&the Amer. City)	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4	HISTORY 201	The Historian's Craft (Relig & American Culture Wars)	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	HISTORY 201	The Historian's Craft (Hist. of Transience in Amer.)	3-4
HISTORY/ ENVIR ST 465	Global Environmental History	3-4	HISTORY 201	The Historian's Craft (The Louisiana Purchase)	3-4
HISTORY/ LEGAL ST 510	Legal Pluralism	3	HISTORY 201	The Historian's Craft (Heroes and Amazons in Sports)	3-4
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	HISTORY 201	The Historian's Craft (History of Now)	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	HISTORY 201	The Historian's Craft (Race & Belonging In Midwest)	3-4

## GEOGRAPHIC BREADTH: U.S. HISTORY COURSES

Code	Title	Credits			
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4	HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4
HISTORY 102	American History, Civil War Era to the Present	4	HIST SCI/ MED HIST 218	History of Twentieth Century American Medicine	3
HISTORY/ ED POL 107	The History of the University in the West	3	HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4
HISTORY 109	Introduction to U.S. History	3-4	HISTORY 221	Explorations in American History (H)	3-4
HISTORY 136	Sport, Recreation, & Society in the United States	3-4	HISTORY/ LEGAL ST 261	American Legal History to 1860	3
			HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3
			HISTORY 272	History Study Abroad: United States History	1-4

HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History	3	HIST SCI/GEN&WS/ MED HIST 532	The History of the (American) Body	3
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HIST SCI/ GEN&WS 537	Childbirth in the United States	3
HISTORY 306	The United States Since 1945	3-4	HISTORY/ JOURN 560	History of U.S. Media	4
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4	HISTORY/L I S 569	History of American Librarianship	3
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY 329	History of American Capitalism	4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4			
HISTORY 345	Military History of the United States	3-4			
HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4			
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4			
HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3			
HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4			
HISTORY/HIST SCI/ MED HIST 394	Science in America	3			
HISTORY 401	Public History Workshop (Wisconsin 101)	3			
HISTORY 403	Immigration and Assimilation in American History	3-4			
HISTORY/ ED POL 412	History of American Education	3			
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3			
HISTORY 427	The American Military Experience to 1902	3-4			
HISTORY 428	The American Military Experience Since 1899	3-4			
HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3			
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4			
HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4			
HISTORY/ ECON 466	The American Economy Since 1865	3-4			
HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4			
HISTORY 500	Reading Seminar in History (Biography in US Sports History)	3			
HIST SCI/ MED HIST 509	The Development of Public Health in America	3			
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health	3			
HIST SCI/GEN&WS/ MED HIST 531	Women and Health in American History	3			

## NOTES ON HISTORY BREADTH REQUIREMENTS

- Breadth courses may be taken in any order.
- Chronological Breadth courses may also count toward a Geographic Breadth category.
- Some courses qualify for more than one Geographic Breadth area, but a course may only count for one Geographic Breadth category for the purposes of meeting the requirement.
- Topics courses (HISTORY 200, HISTORY 201, HISTORY 221, HISTORY 223, HISTORY 225, HIST SCI 280, HISTORY 283, HIST SCI 286, HIST SCI 350 & HISTORY 500) may count for Geographic and/or Chronological Breadth. For topics courses, see the course notes for current breadth information.
- The following courses **may not be used** for breadth in the major: HISTORY 199, HIST SCI 555, HISTORY 600, HISTORY 680, HISTORY 681, HIST SCI 699.

## HISTORY WRITING AND RESEARCH SEQUENCE:

History majors must complete both of the following:

- Students are encouraged to complete one of HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology as early as possible.
- HISTORY 600 Advanced Seminar in History or HIST SCI 555 Undergraduate Seminar in History of Science, to be taken after satisfactory completion of either HISTORY 201 or HIST SCI 211. Enrolling in a HISTORY 600 or HIST SCI 555 seminar requires instructor consent. Available seminars can be found on the history department website (<https://history.wisc.edu/history600-seminars/>).

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in HISTORY/HISTORY of SCIENCE and all other major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits HISTORY and/or HISTORY of SCIENCE taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the History Major in consultation with the History undergraduate advisor.

## HONORS IN MAJOR REQUIREMENTS

To earn Honors in the Major in History, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall University GPA
- Earn a 3.500 GPA in all HISTORY and HISTORY of SCIENCE courses and all other major courses
- Complete at least 36 total credits in HISTORY and HISTORY of SCIENCE coursework, 21 of which must be upper-level credits in residence<sup>2</sup>
- Complete at least 15 Honors credits in HISTORY or HISTORY of SCIENCE coursework
- Complete a two-semester Senior Honors Thesis, a piece of original work of approximately forty pages, in either HISTORY 681-HISTORY 682 or HIST SCI 681-HIST SCI 682, taken in conjunction with the HISTORY 680 Honors Thesis Colloquium both semesters. The thesis must be approved by instructors in both the thesis and colloquium courses.

## FOOTNOTES

1

ILS 201 and ILS 202 may also be used to complete the requirements of the History major, including the requirements for Honors in the Major.

2

Major courses with Intermediate or Advanced Level are counted as upper-level in the History major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Find and interpret diverse evidence to explain complex changes over time
2. Communicate effectively to a variety of audiences in writing and speech
3. Use an understanding of many perspectives to work with people and solve complex problems

4. Seek to understand differing views and ways of being in the world
5. Identify the skills developed in the study of history and articulate their applicability to a variety of professional and intellectual endeavors

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
History Breadth <sup>1</sup>		4 History course for the Ethnic Studies Requirement (complete within 1st 60 credits) <sup>2</sup>	4
Communication Part A (Complete during your first year)	3	Biological Science Breadth <sup>3</sup>	3
Quantitative Reasoning Part A (complete during your first year)	3	Literature Breadth	3
Foreign Language (if necessary)	4	Elective or Course for Second Major <sup>4</sup>	4
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
HISTORY 201 (counts toward Communication Part B) <sup>5</sup>		4 History Breadth	4
HIST SCI 211 (may be taken instead of History 201)		History Elective	3
Quantitative Reasoning Part B (I/A Comp Sci, Math, or Stats if required for the BS)	3	Physical Science Breadth	3
History Elective or Course for Second Major	3	Elective or Course for Second Major	3
Elective or Course for Second Major	3	Elective or Course for Second Major	3
Elective or Course for Second Major	3		
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the Major (before 86 credits) *		History Breadth	4
History Breadth	3	HISTORY 301 (optional)	1

HISTORY 300 <sup>6</sup>	2 Science Breadth	3
I/A Comp Sci, Math, or Stats (if required for the BS)	3 Elective or Course for Second Major	3
Literature Breadth	3 Elective or Course for Second Major	3
Elective or Course for Second Major	4	
	<b>15</b>	<b>14</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Complete Remaining L&S Requirements **		History Elective	4
HISTORY 600 <sup>7</sup>	3 Science Breadth		3
HIST SCI 555 (may be taken instead of History 600)		Elective or Course for Second Major	3
Elective or Course for Second Major	4 Elective or Course for Second Major		3
Elective or Course for Second Major	4 Elective or Course for Second Major		3
Elective or Course for Second Major	4		
	<b>15</b>		<b>16</b>

**Total Credits 120****1**

The History Breadth requirements are very flexible. History majors must complete Chronological Breadth (one course) and take at least one course from four of the eight Geographical Breadth categories. A single course may count toward both Chronological and Geographic Breadth, if appropriate. (For example, a course on Ancient Rome would count toward Chronological Breadth and European History.) HISTORY 201 may also count toward History Breadth requirements.

**2**

Some examples of History courses that count toward the Ethnic Studies Requirement are: HISTORY/CHICLA 152 The U.S. West Since 1850, HISTORY/ASIAN AM 160 Asian American History: Movement and Dislocation, & HISTORY/JEWISH 213 Jews and American Pop. Culture.

**3**

Some L&S Breadth requirements will be satisfied with History coursework. History classes will complete the additional Humanities Breadth credits (the Humanities credits that are not Literature) and may also complete Social Science Breadth.

**4**

History is a flexible major and can be combined with a wide range of other majors and certificates. We encourage students to be thoughtful in how they approach their elective credits, whether that means pursuing an additional major or creating an individual plan of study that draws from multiple disciplines.

**5**

HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology may be taken as soon as you have completed the Communication A requirement. Students should try to complete the Historian's Craft by the end of the second year.

**6**

History offers two optional careers courses that expose students to, and prepare them for, the wide range of careers pursued by history majors: HISTORY 300 & HISTORY 301. History at Work: Professional Skills of the Major (HISTORY 300) connects students to History alumni in different fields and helps develop essential career skills related to the value of the major. History at Work: History Internship Seminar (HISTORY 301) allows students to receive credit toward their major requirements for work associated with an internship.

**7**

HISTORY 600 or HIST SCI 555 may be taken at any point after a student has completed either HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology. History 600s and History of Science 555 are offered on a variety of topics every semester and they provide students with the rich experience of a small, faculty-led seminar. They may be taken for credit more than once as long as the topics are different.

**\***

Students must declare a major by the time they reach 86 credits.

**\*\***

Please refer to the Requirements tab in Guide for College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with a History major should enter the University with a minimum of 18 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 combined credits of Humanities, Social Science, Natural Science, or elective coursework
- 4 units of foreign language

This plan also assumes that History major coursework at UW-Madison will satisfy 6 credits of Humanities breadth (the Humanities credits that are not Literature) and 9 credits of Social Science breadth. Most History majors pursue the B.A. in History, but it is also possible to complete the B.S. and History major requirements in three years.

This plan assumes that students will complete a total of 9 credits over three summers. Summer is an opportunity to make progress toward various requirements. UW-Madison's summer course offerings include a large number of online courses, which give students more flexibility for their summer schedules. For students on an accelerated path, summer is also great time to study abroad.

### First Year

Fall	CreditsSpring	CreditsSummer	Credits
History Breadth <sup>1</sup>	4 HISTORY course with the Ethnic Studies designation (complete within 1st 60 credits) <sup>3</sup>	4 Elective or Course for Second Major	3
History Breadth	4 Elective or Course for Second Major <sup>4</sup>	4	
Biological Science Breadth	3 Quantitative Reasoning Part B (Intermediate or Advanced COMP SCI, MATH, or STAT if B.S.)	3	
Foreign Language (if pursuing retroactive credit) <sup>2</sup>	4 Literature Breadth	3	
	HISTORY 300 (optional or Elective) <sup>5</sup>	2	
	<b>15</b>	<b>16</b>	<b>3</b>

### Second Year

Fall	CreditsSpring	CreditsSummer	Credits
HISTORY 201	4 History Breadth	4 Elective (Intermediate or Advanced level) or Course for Second Major	3
HIST SCI 211 (may be taken instead of History 201)	History Breadth or Elective	4	
Social Science Breadth	3 Physical Science Breadth	4	
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.)	3 Elective (Intermediate or Advanced level) or Course for Second Major	4	
Elective or Course for Second Major	4		

HISTORY 301 (optional or Elective)	1		
	<b>15</b>	<b>16</b>	<b>3</b>
<b>Third Year</b>			
<b>Fall</b>	<b>CreditsSpring</b>	<b>CreditsSummer</b>	<b>Credits</b>
HISTORY 600 <sup>6</sup>	3 History Elective	3 Elective (Intermediate or Advanced level) or Course for Second Major	3
HIST SCI 555 (may be taken instead of History 600)	Literature Breadth	3	
Science Breadth	4 Science Breadth	3	
Electives (Intermediate or Advanced level) or Courses for Second Major	8 Electives (Intermediate or Advanced level) or Courses for Second Major	7	
	<b>15</b>	<b>16</b>	<b>3</b>

### Total Credits 102

#### 1

The History Breadth requirements are very flexible. Students should refer to the Requirements page for the History major for details on approved overlap between types of breadth in the major.

#### 2

Even though students with 4 units of foreign language do not need to complete additional foreign language coursework, UW-Madison's retroactive credit policy (<https://kb.wisc.edu/lr/23736/>) can be very helpful for those pursuing an early graduation.

#### 3

Some examples of History courses that count toward the Ethnic Studies Requirement are: HISTORY/CHICLA 152, ASIAN AM/HISTORY 160, & JEWISH/HISTORY 213.

#### 4

History is a flexible major and can be combined with a wide range of other majors and certificates. For students hoping to double major and graduate early, it is especially important to work closely with academic advisors in both majors. We encourage all students to be thoughtful in how they approach their elective credits, whether that means pursuing an additional major or creating an individual plan of study that draws from multiple disciplines.

#### 5

History offers two optional careers courses that expose students to, and prepare them for, the wide range of careers pursued by history majors: HISTORY 300 & HISTORY 301. History at Work: Professional Skills of the Major (HISTORY 300) connects students to History alumni in different fields and helps develop essential career skills related to the value of the major. History at Work: History Internship Seminar (HISTORY 301) allows students to receive credit toward their major requirements for work associated with an internship.

6

HISTORY 600 or HIST SCI 555 may be taken at any point after a student has completed either HISTORY 201 The Historian's Craft or HIST SCI 211 The Historian's Craft: Science, Medicine, and Technology. History 600s and History of Science 555 are offered on a variety of topics every semester; each course provides students with the rich experience of a small, faculty-led seminar. These seminars may be taken for credit more than once as long as the topics are different. Students who choose to pursue Honors in the History major should complete HISTORY 600 or HIST SCI 555 in Year Two so that they can write a Senior honors thesis in Year Three.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Students who are declared or interested in the history major have numerous advising resources available to them. The history advising team is comprised of professional and peer advisors who are excited to talk with students about everything from academic planning to professional development for future careers. Information on the history advising team and how to contact an advisor can be found on our website (<https://history.wisc.edu/undergraduate-program/undergraduate-advising/>). You can set up an appointment with one of our advisors by using the History Department Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=service/64599>) page.

The history major can also be combined with any other major in the college of Letters & Science (L&S), anything from astronomy (<http://guide.wisc.edu/undergraduate/letters-science/astronomy/>) to zoology (<https://guide.wisc.edu/undergraduate/letters-science/integrative-biology/zoology-bs/>). Majors that students most frequently pair with history are: economics (<http://guide.wisc.edu/undergraduate/letters-science/economics/>), English (<http://guide.wisc.edu/undergraduate/letters-science/english/>), environmental studies (<http://guide.wisc.edu/undergraduate/letters-science/environmental-studies/environmental-studies-major/>), journalism (<http://guide.wisc.edu/undergraduate/letters-science/journalism-mass-communication/>), and political science (<http://guide.wisc.edu/undergraduate/letters-science/political-science/>). History majors can also choose to add certificates in L&S or from outside the college, such as the certificates in business (<http://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>) or education and educational services (<http://guide.wisc.edu/undergraduate/education/educational-psychology/education-educational-services-certificate/>). In addition to these, some of the most common certificates for history majors are currently: criminal justice (<http://guide.wisc.edu/undergraduate/letters-science/center-law-society-justice/criminal-justice-certificate/>), global health (<http://guide.wisc.edu/undergraduate/agricultural-life-sciences/nutritional-sciences/global-health-certificate/>), European studies (<http://guide.wisc.edu/undergraduate/letters-science/institute-regional-international-studies/european-certificate/>), and digital studies (<http://guide.wisc.edu/undergraduate/letters-science/communication-arts/digital-studies-certificate/>). The history advising team is happy to discuss ways for you to make your intellectual and career goals work as part of a four-year plan (<https://guide.wisc.edu/undergraduate/letters-science/history/history-ba/#fouryearplante>).

### HONORS IN THE MAJOR

The Honors in the Major track in history is intended for students who are eager to experience the excitement of original historical research and

who wish to graduate with the best possible undergraduate training in this discipline. Honors in the Major is especially appropriate for students who are considering graduate work in history or who want an especially advanced training in research, reasoning, and writing skills useful to a wide range of career choices.

## CAREER ADVISING

History is a rigorous but flexible major, and history majors are known for being excellent communicators and savvy researchers. Historians are experts in synthesizing disparate pieces of evidence into coherent, persuasive arguments. The real world is filled with disparate facts and incomplete sets of data, so this is a real-world skill that history alumni utilize throughout their entire careers. The department's career advisor, Christina Matta (<https://history.wisc.edu/people/matta-christina/>), helps history majors map out future career plans and connects students to a variety of resources on campus and beyond, including history alumni who volunteer as career mentors (see below for more information).

Alumni of the history department have enjoyed careers in medical research and practice; broadcast and print media; sports management; museums, archives, and libraries; finance and business, and community service and nonprofit organizations—as well as law, academia, and many other fields. The history major provides excellent preparation for the study of law, but our students also go on to study medicine and many other graduate fields.

The centers for Pre-Law Advising (<https://prelaw.wisc.edu/>) and Pre-Health Advising (<https://prehealth.wisc.edu/>) are especially helpful resources on campus for students interested in those areas of study.

Want to see what some of our alumni have done with their history majors? **Check out our “featured alumni” profiles on the department website.**

### HISTORY CAREERS COURSE: “HISTORY AT WORK”

History 300 (History at Work - Professional Skills of the Major) (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>) is a course intended to help history majors understand how their history degree applies to the world of work. Students explore how their history skills relate to the needs of professional employers and are guided in the process of finding and obtaining professional internships and jobs. In this course, history majors can polish their written and oral communication skills in forms appropriate for professional situations and learn from the experiences of guest speakers from a variety of fields.

### INTERNSHIPS

The Department of History recognizes the importance of internships in helping students develop professional skills and explore potential career paths. Positions can vary depending on availability and students' interests, but recent sponsors have included the Wisconsin State Historical Museum, the University of Wisconsin Archives, offices of elected officials in the Wisconsin State Legislature and United States Congress, the Milwaukee Brewers, and Community Shares of Wisconsin—just to name a few! History majors can also get academic credit in conjunction with an internship by taking History 301: History at Work - History Internship Seminar (<https://history.wisc.edu/courses/undergraduate-courses/history-300-301/>).

### ALUMNI MENTORING

Like internships, networking can be a valuable tool in opening professional doors and learning more about the professional value of the history major.

The department often matches students with alumni mentors drawn from our Board of Visitors (<https://history.wisc.edu/alumni-and-friends/board->

of-visitors/) and other graduates who can help them get started building a professional network, answer questions about a specific field, provide guidance in applying for jobs or preparing for interviews, and providing general career advice.

Students interested in participating in an internship or talking with an alumni mentor should meet with Christina Matta, the department's undergraduate career advisor, to discuss their interests and possible career goals.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Boswell, Cheng, Dennis, Desan, Enke, Hansen, Hirsch, Houck, Hsia, Kantrowitz, Keller, Kleijwegt, Kodesh, Lederer, McCoy, McDonald, Michels, Mitman, Murthy, Neville, Plummer, Ratner-Rosenhagen, Reese, Roberts, Shoemaker, Sweet, Thal, Wandel, Young

Associate Professors Callaci, Chamedes, Ciancia, Gómez, Hall, Haynes, Hennessy, Iber, Kim (Charles), Kim (Monica), Kinzley, Lapina, Nelson, Taylor, Ussishkin

Assistant Professors Balto, Banerjee, Bloch, Brown, Esseissah, Glotzer, Hayes, Kennedy, Martoccio, Meléndez-Badillo, Ramírez, Stolz, Suarez, Useche, Villeneuve, Whiting, Williford

Teaching Associates Carlsson, Cullinane, Keyser, Rider, Rosenhagen

## WISCONSIN EXPERIENCE

### HISTORY: THE WISCONSIN EXPERIENCE

The history department is committed to integrating undergraduate historical study into the Wisconsin Experience (<https://provost.wisc.edu/wisconsin-experience/>), UW-Madison's vision for students' growth inside and outside the classroom. History majors at UW-Madison have a wide range of opportunities available to help them make the most of their major and carry the study of the past beyond the boundaries of the classroom.

### OPPORTUNITIES FOR HISTORY MAJORS

#### ARCHIVE

ARCHIVE (<https://uarchive.wordpress.com/>) is an award-winning journal of historical work published annually by the UW-Madison chapter of Phi Alpha Theta. See ARCHIVE's website (<https://uarchive.wordpress.com/>) to view past volumes and find out how you could be published.

#### Phi Alpha Theta

Phi Alpha Theta (<https://history.wisc.edu/undergraduate-program/academic-opportunities-student-life/phi-alpha-theta/>) is a national history honors society whose purpose is to promote the study of history and to bring students, teachers and writers of history together in intellectual and social ways. See the UW-Madison chapter's page for more information.

#### Language and Regional/International Studies

History classes and faculty are at the center of UW-Madison's remarkable collection of resource centers for area studies. IRIS (<https://iris.wisc.edu/>) is the umbrella organization for UW-Madison's eight area studies programs. Students interested in these areas can combine their history major with a major in international studies (<http://www.ismajor.wisc.edu/>) or any of the area studies majors and/or certificates. UW-Madison also has one of the largest selections of language instruction (<https://languages.wisc.edu/>) in the United States.

#### Study Abroad

History is a great major for students interested in studying abroad (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/history/>) due to its flexibility and because History courses are available in most study abroad programs. The History Department encourages study abroad, and our advising team is happy to help students ensure that they are meeting degree requirements while studying abroad.

#### Wisconsin Historical Society

Scholars and researchers from all over the country (and world) come to the Wisconsin Historical Society (<https://www.wisconsinhistory.org/>) (WHS) to do historical research. History majors at UW-Madison simply walk across the street to make use of this world-class institution. The collections of the WHS are an amazing resource for history majors and are utilized by a wide range of our courses. History majors can also develop internships related to the WHS collections and programs. Students who are interested in the history of film and television often double major in communication arts (<http://guide.wisc.edu/undergraduate/letters->

science/communication-arts/) and get involved with the Wisconsin Center for Film and Theater Research (<http://wcftr.commarts.wisc.edu/>).

### UW-Madison Public History Project

The University of Wisconsin–Madison’s Public History Project (<https://publichistoryproject.wisc.edu/>) is a multi-year effort to uncover and give voice to those who experienced, challenged and overcame prejudice on campus. Undergraduate history students participate in the project as part of its History Corps researchers, conducting both archival research and oral history interviews with former students, faculty and staff.

### Public Humanities Exchange for Undergraduates (HEX-U)

The Public Humanities Exchange for Undergraduates (<https://humanities.wisc.edu/public-humanities/hexu/>) (HEX-U) is a high-impact program for undergraduate students at UW-Madison who wish to make meaningful connections between their humanities scholarship and the needs of the local community through new models of social engagement. The program provides training in community partnership, mentoring during project design and implementation, and project funding to small cohorts of undergraduate scholars as they plan and implement creative community projects in partnership with Dane County organizations.

## RESOURCES AND SCHOLARSHIPS

### THE HISTORY LAB

The History Lab is a resource center for undergraduate students studying, researching, and writing about the past. It is staffed by talented and experienced graduate students from the Department of History, and UW-Madison is one of only a handful of universities in the U.S. to have this kind of history-specific writing support.

Through individual and group tutoring, the Lab focuses on honing students’ abilities to form suitable topics, conduct research, develop arguments and thesis statements, cite evidence properly, and write using an effective process. The lab is also equipped to support challenges faced by English-language learners.

For more information or to make an appointment, see the History Lab website. (<https://history.wisc.edu/undergraduate-program/the-history-lab/>)

### RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

The Department of History is committed to supporting undergraduate achievement and encourages applications for the various scholarships and research fellowships made possible by the generosity of its donors. Scholarships are designed to reward outstanding History majors and are awarded annually. Research fellowships allow undergraduates to pursue in-depth historical research under the guidance of Department of History faculty. These awards help defray research costs such as supplies and travel expenses or pay for living expenses to allow students time to craft their papers and conduct research in UW Libraries.

Detailed instructions on how to apply can be found on the Department of History website (<https://history.wisc.edu/undergraduate-program/academic-opportunities-student-life/scholarships-awards-and-prizes/>). Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH) (<https://wisc.academicworks.com/>).

## UNDERGRADUATE WRITING PRIZES

The history department offers an assortment of essay prizes designed to reward a broad range of undergraduate writing—from Senior Theses to term papers to specialized essays in German-Jewish history. The prizes are made possible thanks to the tremendous generosity of our alumni and former members of our faculty. The history department expresses its gratitude for their support in recognizing the achievements of our undergraduates.

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## HISTORY, CERTIFICATE

### WHY STUDY HISTORY AT UW-MADISON?

History is so much more than memorizing names and dates. Are you interested in technology? Religion? The environment? Human rights? If you have a question, History can help you find an answer.

The certificate in history at UW-Madison is a great option for people who are interested in studying (<https://history.wisc.edu/undergraduate-program/history-careers/why-history/>) *change*. History asks, “How did the world get to be this way?” and “What factors might influence where the world is heading now?” Studying history helps us understand and grapple with complex questions and dilemmas by examining how the past has shaped – and continues to shape – global, national, and local relationships between societies and people. The skills that history students develop are used in a wide range of careers (<https://history.wisc.edu/undergraduate-program/history-careers/>) and prepare students for graduate or professional study in fields such as law, business, medicine, public policy and much more.

The certificate in history requires five courses, which may be taken from both *History* and *History of Science* and may include one AP or Transfer course (see the Requirements tab on the right for more details). Students can explore the certificate by taking History or History of Science courses that also count toward other degree requirements such as Ethnic Studies, Humanities and Social Science Breadth, and Com-B (HIST 201: The Historian’s Craft). The certificate in history pairs well with any major in L&S and helps to provide historical context to many areas of study. This context can deepen and enhance understanding of your major and how your area of study fits into today’s world.

Please email the undergraduate program team ([undergraduateprogram@history.wisc.edu](mailto:undergraduateprogram@history.wisc.edu)) with any questions about the certificate in history. You can also set up an appointment with one of our advisors by using the History Department Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=service/64599>) page.

## HOW TO GET IN

There are no prerequisites for declaring the History Certificate, and students are encouraged to declare as soon as they feel comfortable



doing so. Students must meet with a member of the history advising team to declare the certificate. Information about advising and declaring the certificate is available on the undergraduate section (<https://history.wisc.edu/undergraduate-program/>) of the History Department website. History Majors are not eligible to declare the History Certificate.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

Students may use courses from HISTORY and HIST SCI to meet the requirements of the History certificate. The certificate requires 15 total credits/5 courses, including:

Code	Title	Credits
<b>History Research and Writing Course (complete one):</b>		<b>3</b>
HISTORY 201	The Historian's Craft	
HIST SCI 211	The Historian's Craft: Science, Medicine, and Technology	
(HISTORY 201 or HIST SCI 211 should be completed before the Capstone)		

#### Elective Coursework

Any undergraduate courses in HISTORY or HIST SCI may be used to count toward the elective coursework requirement, as well as the following: ILS 201, ILS 202. Students are strongly encouraged to meet with an academic advisor or faculty mentor to select a group of courses that fits well with their interests and fulfills their academic or career goals.

One Intermediate or Advanced HISTORY or HIST SCI course	3
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Two additional courses in HISTORY or HIST SCI at any level	6
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#### Capstone Course

<i>Complete at least one of the following:</i>		<b>3</b>
HISTORY 401	Public History Workshop	
HISTORY 500	Reading Seminar in History	
HIST SCI 555	Undergraduate Seminar in History of Science	
HISTORY 600	Advanced Seminar in History	

<b>Total Credits</b>	<b>15</b>
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### RESIDENCE & QUALITY OF WORK

- At least 12 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

#### NOTES

Up to 3 credits awarded for approved examinations (e.g. AP or IB) or a transfer course may count toward elective coursework. The 12-credit residence requirement is meant to encourage students to engage with UW-Madison faculty and advisors and to choose their elective coursework intentionally. Ideally, these courses will complement their major or be related to other intellectual or career interests.

## LEARNING OUTCOMES

1. Pose a historical question and explain its academic and public implications.
2. Present original and coherent findings through clearly written, persuasive arguments and narratives.
3. Examine the context in which primary sources were created, search for chronological and other relationships among them, and assess the sources in light of that knowledge.
4. Identify primary sources available to engage the historical problem under investigation.
5. Use appropriate research procedures and finding aids to find the secondary resources in history and other disciplines available to answer a historical question.
6. Use appropriate presentation formats and platforms to share information with academic and/or public audiences.

## ADVISING AND CAREERS

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  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

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Phi Alpha Theta is a national history honors society whose purpose is to promote the study of history and to bring students, teachers and writers of history together in intellectual and social ways. See the UW-Madison chapter's page for more information.

#### Language and Regional/International Studies

History classes and faculty are at the center of UW-Madison's remarkable collection of resource centers for area studies. IRIS is the umbrella organization for UW-Madison's eight area studies programs. Students interested in these areas can combine their history certificate with a major in international studies or any of the area studies majors and/

or certificates. UW–Madison also has one of the largest selections of language instruction in the United States.

### Study Abroad

History is a great certificate for students interested in studying abroad due to its flexibility and because History courses are available in most study abroad programs. The History Department encourages study abroad, and our advising team is happy to help students ensure that they are meeting degree requirements while studying abroad.

### Wisconsin Historical Society

Scholars and researchers from all over the country (and world) come to the Wisconsin Historical Society (WHS) to do historical research. History students at UW–Madison simply walk across the street to make use of this world-class institution. The collections of the WHS are an amazing resource for our students and are utilized by a wide range of our courses. History students can also develop internships related to the WHS collections and programs. Students who are interested in the history of film and television often explore, or major in, communication arts and can also get involved with the Wisconsin Center for Film and Theater Research.

### UW–Madison Public History Project

The University of Wisconsin–Madison’s Public History Project (<https://publichistoryproject.wisc.edu/>) is a multi-year effort to uncover and give voice to those who experienced, challenged and overcame prejudice on campus. Undergraduate history students participate in the project as part of its History Corps researchers, conducting both archival research and oral history interviews with former students, faculty and staff.

### Public Humanities Exchange for Undergraduates (HEX-U)

The Public Humanities Exchange for Undergraduates (<https://humanities.wisc.edu/public-humanities/hexu/>) (HEX-U) is a high-impact program for undergraduate students at UW–Madison who wish to make meaningful connections between their humanities scholarship and the needs of the local community through new models of social engagement. The program provides training in community partnership, mentoring during project design and implementation, and project funding to small cohorts of undergraduate scholars as they plan and implement creative community projects in partnership with Dane County organizations.

## RESOURCES AND SCHOLARSHIPS

### THE HISTORY LAB

The History Lab is a resource center for undergraduate students studying, researching, and writing about the past. It is staffed by talented and experienced graduate students from the Department of History, and UW–Madison is one of only a handful of universities in the U.S. to have this kind of history-specific writing support.

Through individual and group tutoring, the Lab focuses on honing students’ abilities to form suitable topics, conduct research, develop arguments and thesis statements, cite evidence properly, and write using an effective process. The lab is also equipped to support challenges faced by English-language learners.

For more information or to make an appointment, see the History Lab website.

### RESEARCH FELLOWSHIPS AND SCHOLARSHIPS

The Department of History is committed to supporting undergraduate achievement and encourages applications for the various scholarships and research fellowships made possible by the generosity of its donors. Scholarships are designed to reward outstanding History students and are awarded annually. Research fellowships allow undergraduates to pursue in-depth historical research under the guidance of Department of History faculty. These awards help defray research costs such as supplies and travel expenses or pay for living expenses to allow students time to craft their papers and conduct research in UW Libraries.

Detailed instructions on how to apply can be found on the Department of History website. Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH).

### UNDERGRADUATE WRITING PRIZES

The history department offers an assortment of essay prizes designed to reward a broad range of undergraduate writing—from Senior Theses to term papers to specialized essays in German–Jewish history. The prizes are made possible thanks to the tremendous generosity of our alumni and former members of our faculty. The history department expresses its gratitude for their support in recognizing the achievements of our undergraduates.

Detailed instructions on how to apply can be found on the Department of History website. Applications need to be submitted online, via the Wisconsin Scholarship Hub (WISH).

## MEDIEVAL STUDIES, CERTIFICATE

Medieval Studies offers students interdisciplinary perspectives on the history and culture of Europe and the Mediterranean rim between ca. 300-1500. Courses spanning 18 departments allow students to explore the medieval world from the standpoints of art, visual and material culture, history, law, languages and literature, music, philosophy, religious studies, and the history of science and medicine. The certificate in Medieval Studies is designed to encourage the pursuit of interdisciplinary work across several departments.

The Middle Ages was a dynamic period of transcontinental trade and travel that fostered cultural, technological, and scientific interactions among the kingdoms and city states of Western Europe, the Byzantine (East Roman) Empire, and the Islamic caliphates that eventually encompassed much of Spain, north Africa, and the Middle East. It is also known that the Norse (Vikings) established settlements in North America as early as ca. 1000, some 500 years before Columbus.

In Western Europe, the Middle Ages laid the foundations of constitutional government and modern nation-states, instituted a system of trial by jury, and developed the first universities along with the concept of a liberal arts curriculum (encompassing both arts and sciences). The period also saw the development of English, Germanic, Scandinavian, and romance languages (Italian, French, Spanish, Portuguese, Romanian), which by the end of the fourteenth century came to eclipse Latin as vehicles for secular poetry and prose. Further east, Greek dominated the territory of the Byzantine Empire, while the foundation of the Kyivan Rus coincided with the development of Cyrillic script used by many Slavic and non-Slavic languages. The Islamic world saw the wide diffusion of Arabic languages and literature, including scientific works which served to

mediate knowledge of Greek natural philosophy and medical science to Western Europe.

Other significant cultural developments include the development of the codex, or book, often with elaborate programs of visual imagery and diagrams, the innovation of musical notation and early forms of polyphony, the application of optical science to urban planning and of one-point perspective to painting (especially in Italy), and the refinement of structural engineering that led to the soaring light-filled architecture of Gothic cathedrals in Western Europe and the expansive centralized domed spaces of the Byzantine Empire and related Orthodox states, as well as the Islamic world.

The program's focus is embodied in the interdisciplinary courses devoted to the history and culture of the Middle Ages that are regularly offered across campus by participating departments and programs. The program cross-lists many of these courses, helps to publicize courses with medieval subject matter that are not permanently cross-listed, and offers opportunities for students to undertake independent study projects with participating faculty members. It also regularly organizes public programming on specific themes with the support of the Anonymous Fund, the Center for the Humanities, the Institute for Research in the Humanities, and affiliated departments and programs.

In addition to departments and programs that regularly offer courses counting towards the Medieval Studies certificate—including Art History, CANES (Classical and Near Eastern Studies), English, French and Italian, Integrated Liberal Studies, German/Nordic/Slavic+ (including Folklore and Scandinavian Studies), History, History of Medicine, History of Science, Jewish Studies, Religious Studies, and Spanish and Portuguese—the following departments and programs occasionally offer courses on medieval topics: African Studies, Asian Languages and Culture, Music, Philosophy, and Political Science.

Like a minor, the certificate documents a student's pursuit of a rigorous course of study in addition to the major(s). It attests to ambitious intellectual goals as well as the ability to imagine historical problems in transnational and transcultural perspectives. As a credential, it demonstrates a capacity for comparative critical thinking and analysis, skills that appeal to a wide range of potential employers.

## HOW TO GET IN

Students interested in working toward the certificate should contact the director of Medieval Studies as early in their degree program as possible. The director serves as the undergraduate advisor for all students pursuing the certificate. For further information see the Medieval Studies website (<http://www.medievalstudies.wisc.edu/>).

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires the completion of **five courses (15 credits)** in the medieval area, according to the following distributional requirements.

Students interested in working toward the certificate should contact the director of Medieval Studies as early in their degree program as possible. The director serves as the undergraduate advisor for all students pursuing

the certificate. For further information see the Medieval Studies website (<http://www.medievalstudies.wisc.edu/>).

Code	Title	Credits
<b>Complete one of the following:</b>		<b>3-4</b>
HISTORY 115	Medieval Europe 410-1500	
ILS 201	Western Culture: Science, Technology, Philosophy I	
HIST SCI 201	The Origins of Scientific Thought	
ENGL 241	Literature and Culture I: to the 18th Century	
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
<b>Complete two courses from Category A ("The Middle Ages through History and Social Sciences").<sup>1</sup></b>		<b>6</b>
<b>Complete two courses from Category B ("The Middle Ages through Language, Literature and the Arts").<sup>1</sup></b>		<b>6</b>
<b>Total Credits</b>		<b>15</b>

1

For a list of which individual courses count toward Category A and which toward Category B, see the course lists below.

### CATEGORY A COURSE LIST

Code	Title	Credits
<b>Category A Courses</b>		
HISTORY 115	Medieval Europe 410-1500	4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4
HISTORY/ MEDIÉVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 417	History of Russia	3-4
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HIST SCI/ MEDIÉVAL 322	Ancient and Medieval Science	3
HIST SCI/ S&A PHM 401	History of Pharmacy	2
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3
ILS 205	Western Culture: Political, Economic, and Social Thought I	3
INTL ST 266	Introduction to the Middle East	3
PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	3
POLI SCI 265	Development of Ancient and Medieval Western Political Thought	3-4

**CATEGORY B COURSE LIST**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Category B Courses</b>		
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	3
ART HIST 318	Romanesque and Gothic Art and Architecture	3-4
ART HIST 320	Italian Renaissance Art	3-4
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	3-4
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	3
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3
ART HIST/ RELIG ST 373	Great Cities of Islam	3
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST/ MIEVEAL 415	Topics in Medieval Art	3
ART HIST 515	Proseminar in Medieval Art	3
ART HIST 525	Proseminar in Italian Renaissance Art	3
ART HIST 535	Proseminar in Northern European Painting	3
ENGL 177	Literature and Popular Culture	3
ENGL 241	Literature and Culture I: to the 18th Century	3
ENGL 314	Structure of English	3
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
ENGL 417	History of the English Language	3
ENGL 422	Outstanding Figure(s) in Literature before 1800	3
ENGL/ MIEVEAL 423	Topic in Medieval Literature and Culture	3
ENGL/ MIEVEAL 424	Medieval Drama	3
ENGL/ MIEVEAL 425	Medieval Romance	3
ENGL/ MIEVEAL 426	Chaucers Courtly Poetry	3
ENGL/ MIEVEAL 427	Chaucer's Canterbury Tales	3
ENGL/ MIEVEAL 520	Old English	3
ENGL/ MIEVEAL 521	Advanced Old English Literature	3
ENGL 546	Topic in Travel Writing before 1800	3
FRENCH 430	Readings in Medieval and Renaissance Literature	3
GERMAN 650	History of the German Language	3
GERMAN/ MIEVEAL 651	Introduction to Middle High German	3
ILS 203	Western Culture: Literature and the Arts I	3
ITALIAN 321	Studies in Italian Literature and Culture I	3
ITALIAN/MIEVEAL/ RELIG ST 440	Poverty, Ecology and the Arts: St. Francis of Assisi	3
ITALIAN/ MIEVEAL 659	Dante's Divina Commedia	3
ITALIAN/ MIEVEAL 671	The 13th Century	3
JEWISH/AFRICAN/ MIEVEAL/ RELIG ST 462	Muslims and Jews	3
LATIN/ MIEVEAL 563	Mediaeval Latin	3
LITTRANS/ MIEVEAL 235	The World of Sagas	3
LITTRANS/ MIEVEAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	3
LITTRANS/ MIEVEAL 255	Black Death and Medieval Life Through Boccaccio's Decameron	3
LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	3-4
LITTRANS/ FOLKLORE/ MIEVEAL/ SCAND ST 345	The Nordic Storyteller	3
LITTRANS/ FOLKLORE/ MIEVEAL 346	In Translation: The Icelandic Sagas	3-4
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
SCAND ST/ FOLKLORE/ MIEVEAL/ RELIG ST 342	Nordic Mythology	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4
SCAND ST/ MIEVEAL 407	Introductory Old Norse	3
SCAND ST/ MIEVEAL 409	Survey of Old Norse-Icelandic Literature	3
SCAND ST/ MIEVEAL 430	The Vikings	4
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation	3

SCAND ST/ MIEVEAL 444	Kalevala and Finnish Folk-Lore	4	other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.
SPANISH 322	Survey of Early Hispanic Literature	3	In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.
SPANISH/ MIEVEAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3	
SPANISH/ MIEVEAL 503	Survey of Medieval Literature	3	
SPANISH/ MIEVEAL 504	Survey of Medieval Literature	3	
SPANISH/ MIEVEAL 541	Old Spanish	3	

## RESIDENCE AND QUALITY OF WORK

- At least 8 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Historical knowledge: Acquire knowledge of historical events, social structures, cultural productions, and/or scientific innovation from c. 300-1500; develop an understanding of the relationship between these and present-day institutions, forms of artistic expression, geopolitical problems, and environmental and social concerns.
2. Interdisciplinary perspective: Approach problems in the study of the past using sources and methods drawn from more than one traditionally defined academic discipline; achieve an understanding of the inherently interdisciplinary nature of medieval studies.
3. Primary research: Encounter and analyze primary sources—including but not limited to historical documents, religious writings, scientific treatises, literary texts, works of visual art and architecture, material culture, performance texts, and music—to reach an understanding of significant aspects of medieval culture and demonstrate that understanding in an applied format.
4. Critical thinking: Discern and synthesize different perspectives on the Middle Ages; identify and question assumptions about the medieval era; assess evidence and/or evaluate methods for understanding the complexities of the past.

### ADVISING AND CAREERS

Students can obtain advising for the certificate by contacting the director of medieval studies. The director serves as the undergraduate advisor for all students pursuing the certificate. For further information see the Medieval Studies website (<https://medievalstudies.wisc.edu/certificate/>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## INFORMATION

Information Science (iSci) majors study concepts and examine issues at the nexus of people, data, information and computing. Majors gain the knowledge and skills to create data driven technologies, and to make them work for real communities. Information Science focuses on the ethical, cultural, and social factors in design and use of information technology-based and data-driven systems. Majors become adept in the creation, management, retrieval, and curation of data and information. The major emphasizes designing systems that foster well-being and support the public good.

### DEGREES/MAJORS/CERTIFICATES

- Information Science, B.A. (p. 886)
- Information Science, B.S. (p. 891)

### PEOPLE

Please visit the iSchool Website (<https://ischool.wisc.edu/faculty-staff-directory/>) for a complete list of faculty, instructional and academic staff.

## INFORMATION SCIENCE, B.A.

Information Science (iSci) majors study concepts and examine issues at the nexus of people, data, information and computing. Majors gain the knowledge and skills to create data driven technologies, and to make them work for real communities. Information Science focuses on the ethical,

cultural, and social factors in design and use of information technology-based and data-driven systems. Majors become adept in the creation, management, retrieval, and curation of data and information. The major emphasizes designing systems that foster well-being and support the public good.

## HOW TO GET IN

For instructions on declaring the Information Science major, please see the Information Science webpage (<https://ischool.wisc.edu/programs/undergraduates/>). There are no specific courses that must be completed before declaration. It is recommended that students declare the major as early as possible to plan for required coursework.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Students must complete a minimum of 30 total credits as detailed below.

#### LIST A: CORE INFORMATION SCIENCE COURSEWORK

Code	Title	Credits
<b>Complete at least 21 credits</b>		
<i>Credits are calculated using any L I S course in a Breadth area below and any of the following additional courses:</i>		
COMP SCI/L I S 102	Introduction to Computing	3
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 301	Information Literacies in Online Spaces	3

L I S 340	Topics in Information Studies - Social Aspects	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 350	History and Future of Books	3
L I S 351	Introduction to Digital Information	3
L I S 407	Data Storytelling with Visualization	3
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S/AFRICAN/COM ARTS 444	Technology and Development in Africa and Beyond	3
L I S/LEGAL ST 460	Surveillance, Privacy, and Police Powers	3
L I S 461	Data and Algorithms: Ethics and Policy	3-4
L I S 464	Applied Database Design	3
L I S 470	Interaction Design Studio	3
L I S 500	Code and Power	3
L I S 501	Introduction to Text Mining	3
L I S 510	Human Factors in Information Security	3
L I S/NURSING/OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
COMP SCI 570	Introduction to Human-Computer Interaction (Information Science Coursework)	4
L I S/LEGAL ST 645	Intellectual Freedom	3
L I S 646	Introduction to Info Architecture and Interaction Design for the Web	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3

## INFORMATION SCIENCE BREADTH REQUIREMENTS (ALL MUST COMPLETE)

### Ethics, Computing & Society Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 461	Data and Algorithms: Ethics and Policy	3-4
L I S/LEGAL ST 460	Surveillance, Privacy, and Police Powers	3
L I S 500	Code and Power	3

### Computational Techniques and Tools Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 351	Introduction to Digital Information	3
L I S 501	Introduction to Text Mining	3
COMP SCI/L I S 102	Introduction to Computing	3
COMP SCI 220	Data Science Programming I	4
COMP SCI 200	Programming I	3

COMP SCI 300	Programming II	3
COMP SCI 368	Learning a Programming Language	1
STAT 433	Data Science with R (Complete one course & at least 3 credits)	3

### Principles of Information and Data Science Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S 464	Applied Database Design	3
STAT 240	Data Science Modeling I	4

### Designing for Human Computer Interaction Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 470	Interaction Design Studio	3
COMP SCI 570	Introduction to Human-Computer Interaction	4
ISYE/PSYCH 349	Introduction to Human Factors	3

### Communicating Digitally Courses

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 407	Data Storytelling with Visualization	3
L I S 350	History and Future of Books	3
COM ARTS 200	Introduction to Digital Communication	3

### List B career/community/internship coursework (1-6 credits)

Code	Title	Credits
<b>Complete 1-6 credits</b>		
<i>Some courses listed may have additional requisites:</i>		
INTER-LS 210	L&S Career Development: Taking Initiative	1
INTER-LS 215	Communicating About Careers	3
INTER-LS/INTER-AG 250	Undergraduate Research Experience	1-3
INTER-LS 260	Internship in the Liberal Arts and Sciences	1
DS 601	Internship	1-8
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
INTL ST 523	International Internship	1-3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4
L I S 399	Independent Reading and Research	1-4
LSC 399	Coordinative Internship/Cooperative Education	1-8
POLI SCI 402	Wisconsin in Washington Internship Course	4
PUB AFFR 327	Administrative Internship	3
COM ARTS 605	Digital Studies Capstone	1



COMP SCI/ STAT 403	Internship Course in Comp Sci and Data Science	1
GEN BUS 450	Professional Experience in Business	1
JOURN 697	Internship	1-3
INTER-HE 202	SoHE Career & Leadership Development	1

## LIST C APPROVED ELECTIVES

Code	Title	Credits
<i>Complete additional credits from courses on List A (Core Information Science), the courses listed for Breadth Requirements, or from any of the following:</i>		
ACT SCI 652	Loss Models I	3
ACT SCI 655	Health Analytics	2-3
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 200	Introduction to Digital Communication	3
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS 509	Digital Media and Political Communication	3
COM ARTS 577	Dynamics of Online Relationships	3
CNSR SCI 257	Introduction to Retail	2
CNSR SCI 301	Consumer Analytics	3
COMP SCI 200	Programming I	3
COMP SCI 220	Data Science Programming I	4
COMP SCI/ E C E 252	Introduction to Computer Engineering	3
COMP SCI 300	Programming II	3
COMP SCI 304	WES-CS Group Meeting	1
COMP SCI 310	Problem Solving Using Computers	3
COMP SCI/ E C E 354	Machine Organization and Programming	3
COMP SCI 407	Foundations of Mobile Systems and Applications	3
COMP SCI 400	Programming III	3
COMP SCI 402	Introducing Computer Science to K-12 Students	2
COMP SCI/ E C E 506	Software Engineering	3
COMP SCI 542	Introduction to Software Security	3
COMP SCI 545	Natural Language and Computing	3
COMP SCI 564	Database Management Systems: Design and Implementation	4
DS 120	Design: Fundamentals I	3
DS 140	Visual Thinking - Form and Space	3
DS 221	Person and Environment Interactions	3
DS 321	Problem-definition: Design Programming	3
DS 341	Design Thinking for Transformation	3

DS 451	Color Theory and Technology	3
DS/COMP SCI/ I SY E 518	Wearable Technology	3
DS/COMP SCI 579	Virtual Reality	3
DS 679	Research Methods in Design	3
GEN BUS 306	Business Analytics I	3
GEN BUS 307	Business Analytics II	3
GEN BUS 656	Machine Learning for Business Analytics	2-3
INFO SYS 322	Introduction to Databases	3
INFO SYS 371	Technology of Computer-Based Business Systems	3
INFO SYS 424	Systems Analysis and Design	3
I SY E 348	Introduction to Human Factors Engineering Laboratory	1
I SY E/PSYCH 349	Introduction to Human Factors	3
I SY E 350	Industrial Engineering Design I	3
I SY E 450	Industrial Engineering Design II	3
I SY E/COMP SCI/ DS 518	Wearable Technology	3
LSC 350	Visualizing Science and Technology	3
LSC 432	Social Media for the Life Sciences	3
LSC 440	Digital Media and Science Communication	3
LSC 532	Web Design for the Sciences	3
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	3
JOURN 175	Media Fluency for the Digital Age	3
JOURN 411	Multimedia Design	4
JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
JOURN 622	The Impact of Emerging Media	3
JOURN 463	Digital Media Strategies	4
MARKETNG 355	Marketing in a Digital Age	3
MARKETNG/ OTM 427	Information Technology in Supply Chains	3
MARKETNG 445	Digital Marketing Analytics	3
OTM/ MARKETNG 427	Information Technology in Supply Chains	3
OTM 453	Operations Analytics	3
R M I 660	Risk Analytics and Behavioral Science	2-3
R M I 670	Cyber Risk & Regulations	2-3
STAT 240	Data Science Modeling I	4
STAT 433	Data Science with R	3
PUB AFFR 281	Discovering What Works in Health Policy	3
PUB AFFR 380	Analytic Tools for Public Policy	3
PUB AFFR 523	Policy, Privacy, and Personal Identity in the Postgenomics Era	3
HIST SCI 150	The Digital Age	3

LSC 340	Misinformation, Fake News, and Correcting False Beliefs about Science	3
LSC 460	Social Media Analytics	3

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

- Minimum 2.000 GPA in all L I S and major courses
- Minimum 2.000 GPA computed on 15 credits of upper-level work in the major<sup>1</sup>
- Minimum 15 credits in L I S courses taken on the UW-Madison campus<sup>2</sup>

## FOOTNOTES

1

All Intermediate or Advanced-level courses are considered upper-level in the major.

2

A course is considered "at UW-Madison" when it is taken on the UW-Madison campus.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of ways in which the policies, ethics, and values associated with information systems can affect society
2. Demonstrate understanding of the relationships between information, cognition, and human social activity
3. Apply design principles and information science concepts to improve information systems and solve problems
4. Apply introductory data analysis and data quality management approaches and communicate results
5. Apply computational tools to accomplish goals and meet human needs
6. Communicate well in oral, written, and visual forms

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Communications A		3 L I S 201, 350, or 461 (Meets Communications B Requirement)	3
L I S/COMP SCI 102		3 Literature Breadth	3
Foreign Language (if needed)		3 Humanities or Social Sciences Breadth	5
Humanities or Social Sciences Breadth		5 Electives	3
	<b>14</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
L I S 440 (meets Quantitative Reasoning B)		3 L I S 202 (Meets Ethnic Studies Requirement)	3
Biological Science Breadth		3 INTER-LS 210 (Meets Career/Community/ Internship Requirement)	1
Humanities or Social Sciences Breadth		3 Literature Breadth	3
Elective		6 Biological Sciences Breadth (if needed)	3
		Intermediate/Advanced COMPSCI, MATH or STAT (if BS) or Elective (if BA)	3
		Electives	2
	<b>15</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Communicating Digitally course		3 Ethics, Computing & Society course	3
Human Computer Interaction course		3 Career/Community/ Internship course (if needed) or other Intermediate or Advanced Electives	3
Physical Sciences Breadth		3 Humanities or Social Sciences Breadth if needed	3

Intermediate/Advanced COMPSCI, MATH or STAT (if BS) or Intermediate or Advanced elective (if BA)	3 Sciences Breadth if needed	3
Humanities or Social Sciences Breadth	3 Elective	3

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**15** **15**

**Senior**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Information and Data Science course	3	Computational Techniques and Tools course	3
Complete Core Information Science coursework or other Intermediate or Advanced Electives	10	Complete Information Science Coursework Requirement or other Intermediate or Advanced Electives	10
Humanities or Social Sciences Breadth (if needed)	3	Humanities or Social Sciences Breadth (if needed)	3

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**16** **16**

**Total Credits 120****ADVISING AND CAREERS**

Looking for Information Science advising?

Students who are interested in information science academic advising for the major should visit the Information School website (<https://ischool.wisc.edu/programs/undergraduates/>) or contact the advisor by email: [iSciAdvising@ischool.wisc.edu](mailto:iSciAdvising@ischool.wisc.edu).

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Please visit the iSchool Website (<https://ischool.wisc.edu/faculty-staff-directory/>) for a complete list of faculty, instructional and academic staff.

**RESOURCES AND SCHOLARSHIPS**

Visit Scholarships@UW-Madison (<https://scholarships.wisc.edu/Scholarships/>) to find UW-Madison scholarships and apply online.

Visit the scholarships page (<https://ischool.wisc.edu/current-students/masters-degree-program/funding-financial-aid/>) on the Information School website for a compendium of opportunities available to students studying information sciences.

**INFORMATION SCIENCE, B.S.**

Information Science (iSci) majors study concepts and examine issues at the nexus of people, data, information and computing. Majors gain the knowledge and skills to create data driven technologies, and to make them work for real communities. Information Science focuses on the ethical, cultural, and social factors in design and use of information technology-based and data-driven systems. Majors become adept in the creation, management, retrieval, and curation of data and information. The major emphasizes designing systems that foster well-being and support the public good.

**HOW TO GET IN**

For instructions on declaring the Information Science major, please see the Information Science webpage (<https://ischool.wisc.edu/programs/undergraduates/>). There are no specific courses that must be completed before declaration. It is recommended that students declare the major as early as possible to plan for required coursework.

**REQUIREMENTS****UNIVERSITY GENERAL EDUCATION REQUIREMENTS**

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must complete a minimum of 30 total credits as detailed below.

### LIST A: CORE INFORMATION SCIENCE COURSEWORK

Code	Title	Credits
<b>Complete at least 21 credits</b>		
<i>Credits are calculated using any L I S course in a Breadth area below and any of the following additional courses:</i>		
COMP SCI/L I S 102	Introduction to Computing	3
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 301	Information Literacies in Online Spaces	3
L I S 340	Topics in Information Studies - Social Aspects	3
L I S 341	Topics in Information Studies - Technological Aspects	1-3
L I S 350	History and Future of Books	3
L I S 351	Introduction to Digital Information	3
L I S 407	Data Storytelling with Visualization	3
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S/AFRICAN/COM ARTS 444	Technology and Development in Africa and Beyond	3
L I S/LEGAL ST 460	Surveillance, Privacy, and Police Powers	3
L I S 461	Data and Algorithms: Ethics and Policy	3-4
L I S 464	Applied Database Design	3
L I S 470	Interaction Design Studio	3
L I S 500	Code and Power	3
L I S 501	Introduction to Text Mining	3
L I S 510	Human Factors in Information Security	3
L I S/NURSING/OCC THER 517	Digital Health: Information and Technologies Supporting Consumers and Patients	3
COMP SCI 570	Introduction to Human-Computer Interaction (Information Science Coursework)	4
L I S/LEGAL ST 645	Intellectual Freedom	3
L I S 646	Introduction to Info Architecture and Interaction Design for the Web	3
L I S/LEGAL ST 663	Introduction to Cyberlaw	3

## INFORMATION SCIENCE BREADTH REQUIREMENTS (ALL MUST COMPLETE)

### Ethics, Computing & Society Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
L I S 461	Data and Algorithms: Ethics and Policy	3-4
L I S/LEGAL ST 460	Surveillance, Privacy, and Police Powers	3
L I S 500	Code and Power	3

### Computational Techniques and Tools Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 351	Introduction to Digital Information	3
L I S 501	Introduction to Text Mining	3
COMP SCI/L I S 102	Introduction to Computing	3
COMP SCI 220	Data Science Programming I	4
COMP SCI 200	Programming I	3
COMP SCI 300	Programming II	3
COMP SCI 368	Learning a Programming Language	1
STAT 433	Data Science with R (Complete one course & at least 3 credits)	3

### Principles of Information and Data Science Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 440	Navigating the Data Revolution: Concepts of Data & Information Science	3
L I S 464	Applied Database Design	3
STAT 240	Data Science Modeling I	4

### Designing for Human Computer Interaction Coursework

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 470	Interaction Design Studio	3
COMP SCI 570	Introduction to Human-Computer Interaction	4
I S Y E/PSYCH 349	Introduction to Human Factors	3

### Communicating Digitally Courses

Code	Title	Credits
<b>Complete one course &amp; at least 3 credits</b>		
L I S 407	Data Storytelling with Visualization	3
L I S 350	History and Future of Books	3
COM ARTS 200	Introduction to Digital Communication	3

### List B career/community/internship coursework (1-6 credits)

Code	Title	Credits
<b>Complete 1-6 credits</b>		
<i>Some courses listed may have additional requisites:</i>		
INTER-LS 210	L&S Career Development: Taking Initiative	1
INTER-LS 215	Communicating About Careers	3
INTER-LS/INTER-AG 250	Undergraduate Research Experience	1-3
INTER-LS 260	Internship in the Liberal Arts and Sciences	1
DS 601	Internship	1-8
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
INTL ST 523	International Internship	1-3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4
L I S 399	Independent Reading and Research	1-4
LSC 399	Coordinative Internship/Cooperative Education	1-8
POLI SCI 402	Wisconsin in Washington Internship Course	4
PUB AFFR 327	Administrative Internship	3
COM ARTS 605	Digital Studies Capstone	1
COMP SCI/STAT 403	Internship Course in Comp Sci and Data Science	1
GEN BUS 450	Professional Experience in Business	1
JOURN 697	Internship	1-3
INTER-HE 202	SoHE Career & Leadership Development	1

## LIST C APPROVED ELECTIVES

Code	Title	Credits
<i>Complete additional credits from courses on List A (Core Information Science), the courses listed for Breadth Requirements, or from any of the following:</i>		
ACT SCI 652	Loss Models I	3
ACT SCI 655	Health Analytics	2-3
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 200	Introduction to Digital Communication	3
COM ARTS 345	Online Communication and Personal Relationships	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS 478	Rhetoric and Power on the Internet	3
COM ARTS 509	Digital Media and Political Communication	3
COM ARTS 577	Dynamics of Online Relationships	3
CNSR SCI 257	Introduction to Retail	2
CNSR SCI 301	Consumer Analytics	3
COMP SCI 200	Programming I	3
COMP SCI 220	Data Science Programming I	4

COMP SCI/ E C E 252	Introduction to Computer Engineering	3	JOURN/COM ARTS/ LSC 617	Health Communication in the Information Age	3
COMP SCI 300	Programming II	3	JOURN 622	The Impact of Emerging Media	3
COMP SCI 304	WES-CS Group Meeting	1	JOURN 463	Digital Media Strategies	4
COMP SCI 310	Problem Solving Using Computers	3	MARKETNG 355	Marketing in a Digital Age	3
COMP SCI/ E C E 354	Machine Organization and Programming	3	MARKETNG/ OTM 427	Information Technology in Supply Chains	3
COMP SCI 407	Foundations of Mobile Systems and Applications	3	MARKETNG 445	Digital Marketing Analytics	3
COMP SCI 400	Programming III	3	OTM/ MARKETNG 427	Information Technology in Supply Chains	3
COMP SCI 402	Introducing Computer Science to K-12 Students	2	OTM 453	Operations Analytics	3
COMP SCI/ E C E 506	Software Engineering	3	R M I 660	Risk Analytics and Behavioral Science	2-3
COMP SCI 542	Introduction to Software Security	3	R M I 670	Cyber Risk & Regulations	2-3
COMP SCI 545	Natural Language and Computing	3	STAT 240	Data Science Modeling I	4
COMP SCI 564	Database Management Systems: Design and Implementation	4	STAT 433	Data Science with R	3
DS 120	Design: Fundamentals I	3	PUB AFFR 281	Discovering What Works in Health Policy	3
DS 140	Visual Thinking - Form and Space	3	PUB AFFR 380	Analytic Tools for Public Policy	3
DS 221	Person and Environment Interactions	3	PUB AFFR 523	Policy, Privacy, and Personal Identity in the Postgenomics Era	3
DS 321	Problem-definition: Design Programming	3	HIST SCI 150	The Digital Age	3
DS 341	Design Thinking for Transformation	3	LSC 340	Misinformation, Fake News, and Correcting False Beliefs about Science	3
DS 451	Color Theory and Technology	3	LSC 460	Social Media Analytics	3
DS/COMP SCI/ I SY E 518	Wearable Technology	3			
DS/COMP SCI 579	Virtual Reality	3			
DS 679	Research Methods in Design	3			
GEN BUS 306	Business Analytics I	3			
GEN BUS 307	Business Analytics II	3			
GEN BUS 656	Machine Learning for Business Analytics	2-3			
INFO SYS 322	Introduction to Databases	3			
INFO SYS 371	Technology of Computer-Based Business Systems	3			
INFO SYS 424	Systems Analysis and Design	3			
I SY E 348	Introduction to Human Factors Engineering Laboratory	1			
I SY E/PSYCH 349	Introduction to Human Factors	3			
I SY E 350	Industrial Engineering Design I	3			
I SY E 450	Industrial Engineering Design II	3			
I SY E/COMP SCI/ DS 518	Wearable Technology	3			
LSC 350	Visualizing Science and Technology	3			
LSC 432	Social Media for the Life Sciences	3			
LSC 440	Digital Media and Science Communication	3			
LSC 532	Web Design for the Sciences	3			
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	3			
JOURN 175	Media Fluency for the Digital Age	3			
JOURN 411	Multimedia Design	4			

## RESIDENCE & QUALITY OF WORK IN THE MAJOR

- Minimum 2.000 GPA in all L I S and major courses
- Minimum 2.000 GPA computed on 15 credits of upper-level work in the major<sup>1</sup>
- Minimum 15 credits in L I S courses taken on the UW-Madison campus<sup>2</sup>

## FOOTNOTES

1

All Intermediate or Advanced-level courses are considered upper-level in the major.

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A course is considered "at UW-Madison" when it is taken on the UW-Madison campus.

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### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

<b>Freshman</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Communications A	3	L I S 201, 350, or 461 (Meets Communications B Requirement)	3
L I S/COMP SCI 102	3	Literature Breadth	3
Foreign Language (if needed)	3	Humanities or Social Sciences Breadth	5
Humanities or Social Sciences Breadth	5	Electives	3
		<b>14</b>	<b>14</b>

<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
L I S 440 (meets Quantitative Reasoning B)	3	L I S 202 (Meets Ethnic Studies Requirement)	3

Biological Science Breadth	3	INTER-LS 210 (Meets Career/Community/ Internship Requirement)	1
Humanities or Social Sciences Breadth	3	Literature Breadth	3
Elective	6	Biological Sciences Breadth (if needed)	3
		Intermediate/Advanced COMPSCI, MATH or STAT (if BS) or Elective (if BA)	3
		Electives	2
		<b>15</b>	<b>15</b>

<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Communicating Digitally course	3	Ethics, Computing & Society course	3
Human Computer Interaction course	3	Career/Community/ Internship course (if needed) or other Intermediate or Advanced Electives	3
Physical Sciences Breadth	3	Humanities or Social Sciences Breadth if needed	3
Intermediate/Advanced COMPSCI, MATH or STAT (if BS) or Intermediate or Advanced elective (if BA)	3	Sciences Breadth if needed	3
Humanities or Social Sciences Breadth	3	Elective	3
		<b>15</b>	<b>15</b>

<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Information and Data Science course	3	Computational Techniques and Tools course	3
Complete Core Information Science coursework or other Intermediate or Advanced Electives	10	Complete Information Science Coursework Requirement or other Intermediate or Advanced Electives	10
Humanities or Social Sciences Breadth (if needed)	3	Humanities or Social Sciences Breadth (if needed)	3
		<b>16</b>	<b>16</b>

**Total Credits 120**

## ADVISING AND CAREERS

Looking for Information Science advising?

Students who are interested in information science academic advising for the major should visit the Information School website (<https://>)

ischool.wisc.edu/programs/undergraduates/) or contact the advisor by email: iSciAdvising@ischool.wisc.edu.

## L&S CAREER RESOURCES

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the iSchool Website (<https://ischool.wisc.edu/faculty-staff-directory/>) for a complete list of faculty, instructional and academic staff.

## INSTITUTE FOR REGIONAL AND INTERNATIONAL STUDIES

### DEGREES/MAJORS/CERTIFICATES

- African Studies, Certificate (p. 896)
- East Asian Studies, Certificate (p. 900)
- European Studies, Certificate (p. 903)
- International Studies, B.A. (p. 913)
- International Studies, B.S. (p. 953)
- Latin American, Caribbean, and Iberian Studies, B.A. (p. 992)
- Latin American, Caribbean, and Iberian Studies, B.S. (p. 998)

- Middle East Studies, Certificate (p. 1004)
- Russian, East European, and Central Asian Studies, Certificate (p. 1008)
- South Asian Studies, Certificate (p. 1012)
- Southeast Asian Studies, Certificate (p. 1015)

## AFRICAN STUDIES, CERTIFICATE

The African Studies Program (<https://africa.wisc.edu/>) supports research, teaching, and outreach at the University of Wisconsin-Madison, bringing together scholars in multiple disciplines, students, teachers, and community partners to consider all aspects of land and life in Africa. The African Studies Program is a US Department of Education Title VI National Resource Center for Africa, a unit in The International Division, and a member of the campus consortium of internationally oriented programs known as the Institute for Regional and International Studies (<http://iris.wisc.edu/>).

The program was established in 1961 by an interdisciplinary team of internationally respected scholars including Jan Vasina, Philip Curtin, Frederick Simoons, and Aristrde Zolberg. The center continues to enjoy a reputation for excellence, having awarded more degrees to Africa specialists than any other American university. No other university boasts such a depth and range of expertise in Africanist scholarship. Over 70 affiliated faculty offer more than 100 courses in 35 departments around campus. The department of African Cultural Studies offers students an opportunity to study a number of African languages including Arabic, Hausa, Swahili, Yoruba, Wolof, and Zulu, as well as options for self-directed study of less-commonly taught languages.

Undergraduates from any department can benefit from access to our programs and top-ranked faculty by completing a certificate in African studies. The certificate is highly interdisciplinary and welcomes students with backgrounds in the humanities, social sciences, business, health, agriculture, or the environment. What unites certificate students is a shared interest in the people, places, and stories of the continent of Africa.

A certificate in African Studies indicates that a student has acquired an interdisciplinary knowledge about the African continent, its histories, its stories, and its people. African studies alumni serve in a number of important leadership positions in both the private and public sector. Former students have gone on to serve as ambassadors, presidential advisors, and leaders of investment firms and Washington think tanks. Many undergraduate certificate holders launch their internationally-oriented careers by joining the Peace Corps after graduation.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the African Studies Program undergraduate advisor ([advising@africa.wisc.edu](mailto:advising@africa.wisc.edu)).



## REQUIREMENTS

### CERTIFICATE REQUIREMENTS 15 CREDITS IN AFRICAN STUDIES APPROVED COURSES

At least two SUBJECTs represented: <sup>1</sup>

Code	Title	Credits
AFRICAN 100	Introduction to African Cultural Expression	
AFRICAN/ HISTORY 129	Africa on the Global Stage	
AFRICAN 201	Introduction to African Literature	
AFRICAN 202	Introductory Topics in African Cultural Studies	
AFRICAN 203	Introductory Topics in African Literature	
AFRICAN/ FOLKLORE 210	The African Storyteller	
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	
AFRICAN 212	Introduction to African Popular Culture	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN 231	Introduction to Arabic Literary Culture	
AFRICAN 232	Introduction to Swahili Cultures	
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	
AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 300	African Literature in Translation	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN 304	Soccer in Africa	
AFRICAN 321	First Semester Arabic	
AFRICAN 322	Second Semester Arabic	
AFRICAN 323	Third Semester Arabic	
AFRICAN 324	Fourth Semester Arabic	
AFRICAN 329	Fifth Semester Arabic	
AFRICAN 330	Sixth Semester Arabic	
AFRICAN 325	Colloquial Arabic	
AFRICAN 326	Colloquial Arabic	
AFRICAN 331	First Semester Swahili	
AFRICAN 332	Second Semester Swahili	
AFRICAN 333	Third Semester Swahili	
AFRICAN 334	Fourth Semester Swahili	
AFRICAN 335	First Semester-A Language of Southern Africa	
AFRICAN 336	Second Semester-A Language of Southern Africa	
AFRICAN 337	Third Semester-A Language of Southern Africa	
AFRICAN 338	Fourth Semester-A Language of Southern Africa	
AFRICAN 339	First Semester Summer Arabic	
AFRICAN 340	Second Semester Summer Arabic	
AFRICAN 341	Third Semester Summer Arabic	
AFRICAN 342	Fourth Semester Summer Arabic	
AFRICAN 343	Fifth Semester Summer Arabic	
AFRICAN 344	Sixth Semester Summer Arabic	
AFRICAN 361	First Semester Hausa	
AFRICAN 362	Second Semester Hausa	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 371	First Semester Yoruba	
AFRICAN 372	Second Semester Yoruba	
AFRICAN 373	Third Semester Yoruba	
AFRICAN 374	Fourth Semester Yoruba	
AFRICAN 391	First Semester-A Language of West Africa	
AFRICAN 392	Second Semester-A Language of West Africa	
AFRICAN 393	Third Semester-A Language of West Africa	
AFRICAN 394	Fourth Semester-A Language of West Africa	
AFRICAN 402	Theory of African Literature	
AFRICAN 403	Theories of African Cultural Studies	
AFRICAN 405	Topics in African Cultural Studies	
AFRICAN 406	Topics in African Literature	
AFRICAN 407	Topics in African Languages	
AFRICAN 409	Topics in US and Global Black Music Studies	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	
AFRICAN 435	Fifth Semester Swahili	
AFRICAN 436	Sixth Semester Swahili	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ COM ARTS/ L I S 444	Technology and Development in Africa and Beyond	
AFRICAN 445	Advanced Readings in Arabic Texts	
AFRICAN/ PORTUG 451	Lusophone African Literature	

AFRICAN 453	Modern African Literature in English	ECON/A A E 474	Economic Problems of Developing Areas
AFRICAN 475	Fifth Semester Yoruba	ED POL 150	Education and Public Policy
AFRICAN 476	Sixth Semester Yoruba	ENVIR ST/ GEOG 339	Environmental Conservation
AFRICAN 500	Language and Society in Africa	ECON/A A E 477	Agricultural and Economic Development in Africa
AFRICAN 605	Advanced Topics in African Cultural Studies	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions
AFRICAN 606	Advanced Topics in African Literature	FRENCH 461	French/Francophone Literary Studies Across the Centuries
AFRICAN 609	Advanced Topics in Global Black Music Studies	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
AFRICAN 669	Special Topics	FRENCH 665	Introduction to Francophone Studies
AFRICAN 670	Theories and Methods of Learning a Less Commonly Taught Language	GEOG/ ENVIR ST 339	Environmental Conservation
AFRICAN 671	Multilanguage Seminar	GEOG 355	Africa, South of the Sahara
AFRICAN 672	Intensive Summer Multilanguage Seminar	HISTORY 105	Introduction to the History of Africa
AFRICAN 697	Directed Study of a Less Commonly Taught Language	HISTORY/ AFRICAN 129	Africa on the Global Stage
AFRICAN 698	Directed Study	HISTORY 225	Explorations in Third World History (H)
AFRICAN 699	Directed Study	HISTORY 278	Africans in the Americas, 1492-1808
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	HISTORY 279	Afro-Atlantic History, 1808-Present
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	HISTORY/ AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	HISTORY 444	History of East Africa
AFROAMER 675	Selected Topics in Afro-American Culture	HISTORY 445	History of Equatorial Africa
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	INTL ST/ ED POL 335	Globalization and Education
A A E/ECON 474	Economic Problems of Developing Areas	INTL ST/ A A E 373	Globalization, Poverty and Development
A A E/ECON 477	Agricultural and Economic Development in Africa	INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
ANTHRO 120	Freshman/Sophomore Seminar in Anthropology	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
ANTHRO 333	Prehistory of Africa	JOURN 620	International Communication
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	JOURN 621	Mass Communication in Developing Nations
ANTHRO 348	Economic Anthropology	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
ANTHRO 391	Bones for the Archaeologist	MUSIC/ FOLKLORE 402	Musical Cultures of the World
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	POLI SCI/ AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction
ART HIST 579	Proseminar in African Art	POLI SCI 329	African Politics
DANCE 118	African Dance	POLI SCI 330	Political Economy of Development
DANCE 165	World Dance Cultures: Traditional to Contemporary	POLI SCI 345	Conflict Resolution
DANCE/ THEATRE 218	African Dance Performance	POLI SCI 348	Analysis of International Relations
DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas		

POLI SCI 354	International Institutions and World Order
POLI SCI 356	Principles of International Law
POLI SCI 437	Nationalism and Ethnic Conflict
POLI SCI 455	African International Relations
PORTUG/ AFRICAN 451	Lusophone African Literature
RELIG ST/ CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean

1

No more than two courses from any one SUBJECT may count toward the certificate. A cross-listed course may count in either—but not both—SUBJECTs in which it is cross-listed.

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 8 certificate credits must be completed in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Historical Grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline.

## ADVISING AND CAREERS

We require that students visit with the advisor at least once per semester. Advising for the certificate is run by the African Studies Program advisor, Aleia Ingulli McCord, [advising@afrika.wisc.edu](mailto:advising@afrika.wisc.edu), who can assist you in developing your plan of study for the certificate, track progress toward the certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments.

We strongly encourage students to enroll in Africa: An Introductory Survey (AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI/ SOC 277), to study an African language, and to study abroad on the continent.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

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1155 Observatory Drive  
Madison, WI 53706  
phone: (608) 262-2380  
fax: (608) 265-5851  
[afrika.wisc.edu/](http://afrika.wisc.edu/) (<http://afrika.wisc.edu/>)  
[advising@afrika.wisc.edu](mailto:advising@afrika.wisc.edu)

Luís Madureira, Faculty Director, [lmadurei@wisc.edu](mailto:lmadurei@wisc.edu)  
Aleia McCord, Associate Director, [aleia.mccord@wisc.edu](mailto:aleia.mccord@wisc.edu)  
Olayinka Olagbegi-Adegbite, Assistant Director, [olagbegi@wisc.edu](mailto:olagbegi@wisc.edu)

Faculty members specializing on Africa are based in more than 40 departments throughout the university's schools and colleges: <https://afrika.wisc.edu/about-us-intro/academics-faculty-members/>

African Studies Program Steering Committee: Jeremy Foltz (Ag & Applied Econ), Nancy Kendall (Education), Mary Hark (Design Studies), Janis Tupesis (Emergency Medicine), Vlad Dima (African Cultural Studies)

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies (<https://iris.wisc.edu/>), we support and enhance international

and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Information about funding through the African Studies Program is available on our website ([http://africa.wisc.edu/?page\\_id=28](http://africa.wisc.edu/?page_id=28)). We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## EAST ASIAN STUDIES, CERTIFICATE

### CERTIFICATE IN EAST ASIAN STUDIES

The undergraduate certificate in East Asian studies is offered by the Center for East Asian Studies (<https://eastasia.wisc.edu/>) (CEAS) and is available to students working toward a baccalaureate degree in any of the University of Wisconsin–Madison schools and colleges, and to University Special students. This certificate meets the needs of students choosing to focus on the East Asian region (China, Korea, Japan, and Tibet) within their primary major, but not wishing to commit to the rigorous language study required by the relevant majors in the Department of Asian Languages and Cultures.

Students select coursework reflecting their interests from myriad classes offered through many university departments, and can work toward a variety of undergraduate majors. Upon earning the certificate, this emphasis is noted on the student's transcript. The certificate is of value to students wishing to demonstrate their knowledge of the East Asian region either to potential employers or to graduate schools.

### ABOUT CEAS

CEAS began in 1962 as the East Asian Studies program, building on more than sixty years of research and teaching on China, Japan, and Korea at the UW–Madison. Over the years it has grown from fewer than a dozen faculty members teaching thirty graduate-level courses to more than seventy faculty members teaching nearly three hundred courses at both undergraduate and graduate levels.

CEAS is the focal point connecting East Asia to the University of Wisconsin–Madison. One of the UW–Madison's eight federally funded National Resource Centers, CEAS is dedicated to all aspects of research, education and outreach related to China, Japan, and Korea.

Students interested in more specialized study of the languages and literatures of East Asia, South Asia, or Southeast Asia should see the Department of Asian Languages and Cultures, the Center for South Asia, or the Center for Southeast Asian Studies; those interested in study of

languages and cultures of Central Asia should see the Center for Russian, East European, and Central Asian Studies. All questions pertaining to East Asian studies at UW–Madison should be addressed to the Center for East Asian Studies (see box at right).

## HOW TO GET IN

Students interested in declaring the East Asian Studies certificate should contact the advisor for the program.

Students declared in the Asian Languages and Cultures: East Asian Studies BA/BS/MAJ are not eligible to declare the East Asian Studies certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Complete 21 credits representing at least three SUBJECTs, from: <sup>1</sup>

Code	Title	Credits
<b>Core Course</b>		
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
<b>At least three courses numbered 300 or above:</b>		<b>9</b>
A A E 319	The International Agricultural Economy	
A A E/ECON 474	Economic Problems of Developing Areas	
ANTHRO 357	Introduction to the Anthropology of Japan	
ART HIST 203	Survey of Asian Art	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	
ART HIST 575	Proseminar in Japanese Art	
ART HIST 576	Proseminar in Chinese Art	
ASIALANG 101	First Semester Chinese	
ASIALANG 102	Second Semester Chinese	
ASIALANG 103	First Semester Japanese	
ASIALANG 104	Second Semester Japanese	
ASIALANG 105	First Semester Korean	
ASIALANG 106	Second Semester Korean	
ASIALANG 110	Elementary Chinese I	
ASIALANG 111	Elementary Chinese II	

ASIALANG 113	First Semester Elementary Japanese	ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters
ASIALANG 114	Second Semester Elementary Japanese	ASIAN 253	Japanese Popular Culture
ASIALANG 135	First Semester Modern Tibetan	ASIAN 254	
ASIALANG 136	Second Semester Modern Tibetan	ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective
ASIALANG 201	Third Semester Chinese	ASIAN 268	Tibetan Cultures and Traditions
ASIALANG 202	Fourth Semester Chinese	ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts
ASIALANG 203	Third Semester Japanese	ASIAN 301	Social Studies Topics in East Asian Studies
ASIALANG 204	Fourth Semester Japanese	ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism
ASIALANG 205	Third Semester Korean	ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism
ASIALANG 206	Fourth Semester Korean	ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method
ASIALANG 211	Heritage Chinese I	ASIAN/ HISTORY 335	The Koreas: Korean War to the 21st Century
ASIALANG 212	Heritage Chinese II	ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919
ASIALANG 235	Third Semester Modern Tibetan	ASIAN/ HISTORY 341	History of Modern China, 1800-1949
ASIALANG 236	Fourth Semester Modern Tibetan	ASIAN/ HISTORY 342	History of the Peoples Republic of China, 1949 to the Present
ASIALANG 301	Fifth Semester Chinese	ASIAN/ RELIG ST 350	Introduction to Taoism
ASIALANG 302	Sixth Semester Chinese	ASIAN 351	Survey of Classical Chinese Literature
ASIALANG 303	Fifth Semester Japanese	ASIAN 352	Survey of Modern Chinese Literature
ASIALANG 304	Sixth Semester Japanese	ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature
ASIALANG 305	Fifth Semester Korean	ASIAN 354	Early Modern Japanese Literature
ASIALANG 306	Sixth Semester Korean	ASIAN 355	Modern Japanese Literature
ASIALANG 311	First Semester Classical Chinese	ASIAN 357	Japanese Ghost Stories
ASIALANG 312	Second Semester Classical Chinese	ASIAN 358	Language in Japanese Society
ASIALANG 313	Classical Japanese	ASIAN 361	Love and Politics: The Tale of Genji
ASIALANG 315	First Semester Classical Chinese for Chinese Speakers	ASIAN/ HISTORY 363	China and World War II in Asia
ASIALANG 316	Second Semester Classical Chinese for Chinese Speakers	ASIAN 367	Haiku
ASIALANG 335	Fifth Semester Tibetan	ASIAN 371	Topics in Chinese Literature
ASIALANG 336	Sixth Semester Tibetan	ASIAN 372	Topics in Chinese: Study Abroad
ASIALANG 376	Japanese Conversation	ASIAN 373	Topics in Japanese: Study Abroad
ASIALANG 377	Business Japanese Communication	ASIAN 374	
ASIALANG 378	Chinese Conversation	ASIAN 375	Survey of Chinese Film
ASIALANG 379	Business Chinese	ASIAN 376	Manga
ASIALANG 381	Business Korean	ASIAN/ ART HIST 379	Cities of Asia
ASIALANG 401	Seventh Semester Chinese	ASIAN 378	Anime
ASIALANG 402	Eighth Semester Chinese	ASIAN 432	Introduction to Chinese Linguistics
ASIALANG 403	Seventh Semester Japanese	ASIAN 433	Topics in East Asian Visual Cultures
ASIALANG 405	Seventh Semester Korean	ASIAN 434	Introduction to Japanese Linguistics
ASIALANG 406	Eighth Semester Korean	ASIAN/ HISTORY 454	Samurai: History and Image
ASIALANG 451	Advanced Readings in Japanese		
ASIALANG 452	Advanced Japanese through Audio-Visual Media		
ASIALANG 454	Advanced Chinese through Media		
ASIALANG 457	Advanced Chinese: Reading and Writing		
ASIALANG 677	Advanced Readings in Tibetan		
ASIAN/ HISTORY 103	Introduction to East Asian History: China		
ASIAN/ HISTORY 104	Introduction to East Asian History: Japan		
ASIAN/ HISTORY 108	Introduction to East Asian History - Korea		

ASIAN/ HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
ASIAN 533	Readings in Early Modern Japanese Literature
ASIAN 563	Readings in Modern Japanese Literature
ASIAN 571	Readings in Classical Chinese Literature
ASIAN 573	Readings in Classical Japanese Literature
ASIAN 631	History of the Chinese Language
ASIAN 632	Studies in Chinese Linguistics
ASIAN 633	Chinese Applied Linguistics
ASIAN 641	History of Chinese Literature I
ASIAN 642	History of Chinese Literature II
ASIAN 671	Literary Studies in Chinese Drama
ASIAN 672	Studies in Chinese Fiction
ECON 390	Contemporary Economic Issues
ECON/A A E 474	Economic Problems of Developing Areas
HISTORY/ ASIAN 103	Introduction to East Asian History: China
HISTORY/ ASIAN 104	Introduction to East Asian History: Japan
HISTORY/ ASIAN 108	Introduction to East Asian History - Korea
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919
HISTORY 340	Cultural History of Korea
HISTORY/ ASIAN 341	History of Modern China, 1800-1949
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present
HISTORY/ ASIAN 363	China and World War II in Asia
HISTORY/ ASIAN 454	Samurai: History and Image
HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
JOURN 621	Mass Communication in Developing Nations
LITTRANS 261	Survey of Chinese Literature in Translation
LITTRANS 262	Survey of Chinese Literature in Translation
LITTRANS 263	Survey of Japanese Literature in Translation
LITTRANS 264	Survey of Japanese Literature in Translation
LITTRANS 368	Modern Japanese Fiction

LITTRANS 373	Topics in Japanese Literature
LITTRANS 374	Topics in Korean Literature
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World
MUSIC/ FOLKLORE 402	Musical Cultures of the World
POLI SCI 324	Chinese Politics
POLI SCI 328	Politics of East and Southeast Asia
POLI SCI 346	China in World Politics
SOC 225	Contemporary Chinese Society
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 526	The Theatres of China and Japan

**Electives - take any course above to attain 21 credits in the certificate** **9**

**Total Credits** **21**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 11 certificate credits must be completed in residence

## FOOTNOTES

1

A maximum 12 credits of East Asian language may apply.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW-Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. (Historical Grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of Knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline.

## ADVISING AND CAREERS

Students should contact the CEAS advisor (see contact information in box on right), with questions regarding courses and requirements for the certificate.

Students are encouraged to seek the assistance of SuccessWorks at the College of Letters & Science early in their academic career. Take advantage of all the services offered such as mock interviews, resume and cover letter review sessions, career preparation workshops, and so on.

Students interested in international internships should contact the International Internships Program (<http://internships.international.wisc.edu/>) office.

## L&S CAREER RESOURCES

SuccessWorks at the College of Letters & Science helps students leverage the academic skills learned in their major, certificates, and liberal arts degree; explore and try out different career paths; participate in internships; prepare for the job search and/or graduate school applications; and network with professionals in the field (alumni and employers). In short, SuccessWorks helps students in the College of Letters & Science discover themselves, find opportunities, and develop the skills they need for success after graduation.

SuccessWorks can also assist students in career advising, résumé and cover letter writing, networking opportunities, and interview skills, as well as course offerings for undergraduates to begin their career exploration early in their undergraduate career.

Students should set up their profiles in Handshake (<https://careers.ls.wisc.edu/handshake/>) to take care of everything they need to explore career events, manage their campus interviews, and apply to jobs and internships from 200,000+ employers around the country.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://careers.ls.wisc.edu/make-an-appointment/>)
- Handshake (<https://careers.ls.wisc.edu/handshake/>)

Learn how we're transforming career preparation: L&S Career Initiative (<http://ls.wisc.edu/lsci/>)

## PEOPLE

Please visit our website to learn more about our CEAS faculty and staff: Staff (<https://eastasia.wisc.edu/staff/>)

Faculty (<https://eastasia.wisc.edu/ceas-faculty/>)

Steering Committee (<https://eastasia.wisc.edu/steering-committee/2020-21/>)

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies (<https://iris.wisc.edu/>), we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do

international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Please visit our Funding Opportunities page for information on funding available to CEAS students.

Please join the CEAS mailing list (<https://wisc.us19.list-manage.com/subscribe/?u=fccb9f121aa754e663a765bfc&id=c7aa1cbdaf>) to receive "This Week at CEAS," a weekly newsletter that contains information on events and opportunities related to East Asia.

## EUROPEAN STUDIES, CERTIFICATE

The European Studies Program (<https://europe.wisc.edu/>), in cooperation with the Center for European Studies, the Jean Monnet European Union Center of Excellence (JMEUCE), and the DAAD Center for German and European Studies (CGES), promotes knowledge and understanding of Europe both on and off campus. Established in 1968, the program provides integrated interdisciplinary studies on contemporary Europe for both undergraduate and graduate students. The program brings together scholars on campus interested in different aspects of Europe to discuss topics of mutual interest. More than thirty departments offer courses on Europe (excluding language courses), providing the largest number of courses on any region of the world other than the United States.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the Center for European Studies or the undergraduate advisor.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE LANGUAGE REQUIREMENT

Students may satisfy the European language requirement by taking college courses, or through high school units. There are two options to complete the requirement—students can either complete:

1. Four units of a single European language
- or
2. Three units of one European language and two units of a second European language.

### Fourth, Third, and Second Unit Courses

Code	Title	Credits
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#### Fourth unit courses:

*Courses above fourth semester may be used to satisfy this requirement.*

FRENCH 204	Fourth Semester French
GERMAN 204	Fourth Semester German
GERMAN 214	Fourth Semester Dutch
GNS 440	Fourth Semester Turkish
GREEK 306	Fourth Semester Ancient Greek
ITALIAN 204	Fourth Semester Italian
PORTUG 202	Fourth Semester Portuguese
SCAND ST 202	Second Year Norwegian
SCAND ST 212	Second Year Swedish
SCAND ST 222	Second Year Danish
SPANISH 204	Fourth Semester Spanish
SLAVIC 208	Fourth Semester Polish
SLAVIC 218	Fourth Semester Czech
SLAVIC 252	Fourth Semester Serbo-Croatian

**Third unit courses:**

FRENCH 203	Third Semester French
GERMAN 203	Third Semester German
GERMAN 213	Third Semester Dutch
GNS 439	Third Semester Turkish
GREEK 305	Third Semester Ancient Greek
ITALIAN 203	Third Semester Italian
PORTUG 201	Third Semester Portuguese
SCAND ST 201	Second Year Norwegian
SCAND ST 211	Second Year Swedish
SCAND ST 221	Second Year Danish
SPANISH 203	Third Semester Spanish
SLAVIC 207	Third Semester Polish
SLAVIC 217	Third Semester Czech
SLAVIC 251	Third Semester Serbo-Croatian

**Second unit courses:**

FRENCH 102	Second Semester French
GERMAN 102	Second Semester German
GERMAN 112	Second Semester Dutch
GNS 340	Second Semester Turkish
GREEK 104	Second Semester Ancient Greek
GREEK 304	Second Semester Ancient Greek
ITALIAN 102	Second Semester Italian
PORTUG 102	Second Semester Portuguese
SCAND ST 102	Second Semester Norwegian
SCAND ST 112	Second Semester Swedish
SCAND ST 122	Second Semester Danish
SCAND ST 132	Second Semester Finnish
SPANISH 102	Second Semester Spanish
SLAVIC 116	Second Semester Czech
SLAVIC 112	Second Semester Polish
SLAVIC 142	Second Semester Serbo-Croatian

**EUROPEAN AREA STUDIES REQUIREMENT**

Complete seven courses and 21 credits, with courses being taken in at least two **subjects**, and distributed in one of **two** ways:

- Option 1:** Seven courses on **Europe as a whole**: focusing on topics such as the European Union, European history, or European literature.
- Option 2:** Seven courses distributed across **three or more regional/national areas**. (Students may use Europe as a whole courses in partial fulfillment of this option combined with courses on two other regional/national areas).

**Option 1: Europe as a Whole**  
**Europe as a Whole**

Code	Title	Credits
<b>Complete seven courses from at least two subjects:</b>		<b>21</b>
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ART HIST 318	Romanesque and Gothic Art and Architecture	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 355	History of Photography	
ART HIST/ MEDIEVAL 415	Topics in Medieval Art	
ART HIST 515	Proseminar in Medieval Art	
ART HIST 535	Proseminar in Northern European Painting	
ART HIST 555	Proseminar in 19th Century European Art	
ART HIST 556	Proseminar in 20th Century European Art	
C&E SOC/ HIST SCI 230	Agriculture and Social Change in Western History	
COM ARTS 352	Film History to 1960	
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	
COM ARTS 370	Great Speakers and Speeches	
COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	
COMP LIT 370	Comparative Problems in Periods and Movements	
CURRIC 292	Globalizing Education	
CURRIC 366	Internationalizing Educational Knowledge	
DS 355	History of Fashion, 1400–Present	
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	
ECON 364	Survey of International Economics	
ECON 464	International Trade	
ECON 467	International Industrial Organizations	
ED POL/ HISTORY 107	The History of the University in the West	
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	
ED POL 240	Comparative Education	
ED POL 260	Introduction to International Education Development	



ED POL/ INTL ST 335	Globalization and Education	HISTORY 357	The Second World War
ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	HISTORY 359	History of Europe Since 1945
ED POL 675	Introduction to Comparative and International Education	HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe
GEN&WS/ ENGL 250	Women in Literature	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
GEOG/ URB R PL 305	Introduction to the City	HISTORY 403	Immigration and Assimilation in American History
GEOG 318	Introduction to Geopolitics	HISTORY/ RELIG ST 411	The Enlightenment and Its Critics
GEOG 340	World Regions in Global Context	HISTORY 424	The Soviet Union and the World, 1917-1991
GEOG 349	Europe	HISTORY/ LEGAL ST 426	The History of Punishment
GEOG/ URB R PL 506	Historical Geography of European Urbanization	HISTORY 434	American Foreign Relations, 1901 to the Present
GEOG 510	Economic Geography	HISTORY/ ENVR ST/ GEOG 469	The Making of the American Landscape
HISTORY/ ED POL 107	The History of the University in the West	HISTORY/ LEGAL ST 476	Medieval Law and Society
HISTORY 115	Medieval Europe 410-1500	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence
HISTORY 118	Early Modern World	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945
HISTORY 119	Europe and the World, 1400-1815	HISTORY/ ART HIST/ JOURN/L I S 650	History of Books and Print Culture in Europe and North America
HISTORY 120	Europe and the Modern World 1815 to the Present	HIST SCI 201	The Origins of Scientific Thought
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	HIST SCI 202	The Making of Modern Science
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	HIST SCI 203	Science in the Twentieth Century: A Historical Overview
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	HIST SCI 222	Technology and Social Change in History
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	HIST SCI/ C&E SOC 230	Agriculture and Social Change in Western History
HISTORY 223	Explorations in European History (H)	HIST SCI/ MED HIST 284	Physician in History (Honors)
HISTORY 224	Explorations in European History (S)	HIST SCI/ MEDIEVAL 322	Ancient and Medieval Science
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	HIST SCI/ HISTORY 323	The Scientific Revolution: From Copernicus to Newton
HISTORY 271	History Study Abroad: European History	HIST SCI/ HISTORY 324	Science in the Enlightenment
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	HIST SCI/ MED HIST/ RELIG ST 331	Science, Medicine and Religion
HISTORY/ JEWISH 310	The Holocaust	HIST SCI/ MED HIST 333	History of Modern Biology
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	HIST SCI 343	The Darwinian Revolution
HISTORY/ HIST SCI 324	Science in the Enlightenment	HIST SCI/ ENVR ST 353	History of Ecology
HISTORY/ ENVR ST 328	Environmental History of Europe	HIST SCI/ S&A PHM 401	History of Pharmacy
HISTORY/ INTL ST 330	Global History of Humanitarianism		
HISTORY/ GEN&WS 346	Trans/Gender in Historical Perspective		
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe		
HISTORY 351	Seventeenth-Century Europe		

HIST SCI/ HISTORY/ MED HIST 507	Health, Disease and Healing I
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HIST SCI 623	Studies in Early Modern Science
ILS 201	Western Culture: Science, Technology, Philosophy I
ILS 202	Western Culture: Science, Technology, Philosophy II
ILS 203	Western Culture: Literature and the Arts I
ILS 204	Western Culture: Literature and the Arts II
ILS 205	Western Culture: Political, Economic, and Social Thought I
ILS 206	Western Culture: Political, Economic, and Social Thought II
ILS/ RELIG ST 234	Genres of Western Religious Writing
INTL BUS 200	International Business
INTL BUS/ GEN BUS 320	Intercultural Communication in Business
INTL BUS/ M H R 403	Global Issues in Management
INTL BUS/ MARKETNG 420	Global Marketing Strategy
INTL BUS/ REAL EST 430	International Real Estate
INTL BUS/ FINANCE 445	Multinational Business Finance
LITTRANS/ MEDIEVAL 235	The World of Sagas
MARKETNG/ INTL BUS 420	Global Marketing Strategy
MATH/ HIST SCI 473	History of Mathematics
MED HIST/ HIST SCI 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine
MED HIST/ HIST SCI/ HISTORY 508	Health, Disease and Healing II
MEDIEVAL/ HIST SCI 322	Ancient and Medieval Science
MUSIC 306	Great Composers
MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity
MUSIC 411	Survey of Music in the Middle Ages
MUSIC 412	Survey of Music in the Renaissance
MUSIC 413	Survey of Music in the Baroque Era
MUSIC 414	Survey of Music in the Classic Era
MUSIC 415	Survey of Music in the Romantic Era

MUSIC 416	Survey of Music in the Twentieth Century
MUSIC 513	Survey of Opera
PHILOS 432	History of Modern Philosophy
PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century
PHILOS 530	Freedom Fate and Choice
PHILOS 549	Great Moral Philosophers
PHILOS 555	Political Philosophy
POLI SCI 265	Development of Ancient and Medieval Western Political Thought
POLI SCI 340	The European Union: Politics and Political Economy
POLI SCI 350	International Political Economy
POLI SCI 356	Principles of International Law
POLI SCI 390	Study Abroad Topics in Political Science: International Relations
POLI SCI 432	Comparative Legal Institutions
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
POLI SCI 538	Politics and Policies in the European Union
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics
SOC/ C&E SOC 475	Classical Sociological Theory
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science
THEATRE 327	History of Costume for the Stage
THEATRE 522	Experimental Drama: The Theatre of Europe 1850–the Present

### Option 2: Three Regions/Countries

Complete **seven** courses from at least two **subjects** and from at least **three** regions/countries

#### Ancient Europe

Code	Title	Credits
<b>Ancient Europe</b>		
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	
ART HIST 301	Myths, Loves, and Lives in Greek Vases	
ART HIST 302	Greek Sculpture	
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200–1453	
ART HIST 405	Cities and Sanctuaries of Ancient Greece	
ART HIST 505	Proseminar in Ancient Art	
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	
CLASSICS 100	Legacy of Greece and Rome in Modern Culture	

CLASSICS/ HISTORY 110	The Ancient Mediterranean
CLASSICS 150	Ancient Greek and Roman Monsters
CLASSICS 270	Classical Mythology
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome
CLASSICS 320	The Greeks
CLASSICS 322	The Romans
CLASSICS/ GEN&WS 351	Women and Gender in the Classical World
CLASSICS/ GEN&WS 361	Sex and Power in Greece and Rome
CLASSICS 371	Topics in Greek Culture
CLASSICS 372	Topics in Roman Culture
CLASSICS 373	Topics in Classical Culture
CLASSICS 430	Topics in Classical Archaeology
CLASSICS/ ENVIR ST 488	Greeks, Romans and the Natural Environment
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean
CLASSICS 591	Undergraduate Seminar: Approaches to the Classical World
COM ARTS 570	Classical Rhetorical Theory
GEN&WS/ CLASSICS 351	Women and Gender in the Classical World
GREEK 401	Readings in Greek Literature
GREEK 510	Homer
GREEK 511	Hesiod
GREEK 512	Greek Lyric Poets
GREEK 520	Greek Comedy
GREEK 521	Greek Tragedy
GREEK 532	Thucydides
GREEK 551	Attic Orators
GREEK 560	Hellenistic Greek
HISTORY/ CLASSICS 110	The Ancient Mediterranean
HISTORY 111	Culture & Society in the Ancient Mediterranean
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)
HISTORY 303	A History of Greek Civilization
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean
ILS/ITALIAN 350	Rome: Lust for Glory
LATIN 306	Fourth Semester Latin
LATIN 401	Readings in Latin Literature
LATIN 515	Vergil
LATIN 519	Latin Poetry
LATIN 520	Roman Drama
LATIN 521	Roman Elegy
LATIN 522	Roman Lyric Poetry

LATIN 523	Roman Satire
LATIN 524	Roman Novel
LATIN 539	Latin Historical Writers
LATIN 549	Latin Philosophical Writers
LATIN 559	Latin Oratory
PHILOS 430	History of Ancient Philosophy
PHILOS 454	Classical Philosophers

### Balkans

Code	Title	Credits
<b>Balkans</b>		
LITTRANS 454	History of Serbian and Croatian Literature	
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	
SLAVIC 342	Introduction to Serbian and Croatian Literature	
SLAVIC 449	History of Serbo-Croatian Literature	
SLAVIC 454	Modern Serbo-Croatian Literature	

### Belgium

Code	Title	Credits
<b>Belgium</b> Used for Brussels Study Abroad courses		

### Central Europe

Code	Title	Credits
<b>Central Europe</b> Also used for Central European Study Abroad courses		
GERMAN 275	Kafka and the Kafkaesque	
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	

### Denmark

Code	Title	Credits
<b>Denmark</b>		
LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	
SCAND ST 271	Readings in Danish Literature	
SCAND ST 426	Kierkegaard and Scandinavian Literature	
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	
SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	

### Eastern Europe

Code	Title	Credits
<b>Eastern Europe</b>		
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	
GEOG 318	Introduction to Geopolitics	
GNS/ FOLKLORE 200	Folklore of Central, Eastern and Northern Europe	
GNS/ ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	

GNS 375	Philosophy, Theory, Criticism
GNS 471	Advanced Topics in East European and Central Asian Languages and Cultures
HISTORY 270	Eastern Europe since 1900
HISTORY 424	The Soviet Union and the World, 1917-1991
LITTRANS 207	Slavic Science Fiction through Literature and Film
LITTRANS 229	Representation of the Jew in Eastern European Cultures
LITTRANS 241	Literatures and Cultures of Eastern Europe
LITTRANS 247	Topics in Slavic Literatures in Translation
LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context
POLI SCI 659	Politics and Society: Contemporary Eastern Europe
SLAVIC 242	Literatures and Cultures of Eastern Europe
SLAVIC 245	Topics in Slavic Literatures
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore

### Europe as a Whole

Code	Title	Credits
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#### Europe as a Whole

Please see Option 1's Europe as a Whole course list for courses approved for this category.

### Finland

Code	Title	Credits
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#### Finland

FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today
MEDIEVAL/ SCAND ST 444	Kalevala and Finnish Folk-Lore
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore

### France

Code	Title	Credits
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#### France

COM ARTS 455	French Film
FRENCH 210	Sexuality and Gender in 20th-Century French Literature

FRENCH 248	Ethnic Studies in the French/Francophone World(s)
FRENCH 271	Literature, Comics, and Film in French
FRENCH 288	Doctors without Borders (Médecins Sans Frontières)
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
FRENCH 321	Medieval and Early Modern French Literature
FRENCH 322	Modern French and Francophone Literature
FRENCH 325	Visual Culture in French/Francophone Studies
FRENCH 347	Medieval and Early Modern Culture
FRENCH 348	Modernity Studies
FRENCH 361	Study Abroad: French/Francophone Literature
FRENCH 362	Study Abroad: French/Francophone Civilization
FRENCH 420	Topics in French: Study Abroad
FRENCH 430	Readings in Medieval and Renaissance Literature
FRENCH 431	Readings in Early Modern Literature
FRENCH 449	Francophone Modernity Studies
FRENCH 451	Medieval, Renaissance, and Early Modern Studies
FRENCH 461	French/Francophone Literary Studies Across the Centuries
FRENCH 462	French/Francophone Cultural Studies Across the Centuries
FRENCH 464	Literature and Medicine in French-Speaking Cultures
FRENCH 465	French/Francophone Film
FRENCH 467	Aspects of Contemporary French Literature
FRENCH 472	French/Francophone Literature and Women
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies
FRENCH 569	Critical Approaches to Literature and Culture: French and Francophone Perspectives
FRENCH 618	Career Strategies for the French-Speaking World
FRENCH 626	Critical Approaches to French Literature
FRENCH 630	The Age of Reason
FRENCH 631	17th-Century French Literature
FRENCH 633	The 17th-Century Novel
FRENCH 636	The French Novel: 1850-1900

FRENCH 637	19th-Century French Literature
FRENCH 639	17th-Century Literature
FRENCH 642	Culture and Societies
FRENCH 645	16th-Century French Literature
FRENCH 647	The 20th-Century French Novel
FRENCH 653	French and Francophone Cinema
HISTORY 320	Early Modern France, 1500-1715
HISTORY 348	France from Napoleon to the Great War, 1799-1914
HISTORY 349	Contemporary France, 1914 to the Present
HISTORY 358	French Revolution and Napoleon
LITTRANS 209	Masterpieces of French Literature and Culture
LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces
LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century
LITTRANS 272	French Pop Culture
LITTRANS 360	French and Italian Renaissance Literature Online
PHILOS 440	Existentialism

### Germany

Code	Title	Credits
<b>Germany</b>		
ART HIST 454	Art in Germany, 1900-1945	
COM ARTS/ GERMAN 655	German Film	
CURRIC/ED POL/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	
GEN&WS/ LITTRANS 270	German Women Writers in Translation	
GERMAN 264	Culture in 20th Century Berlin	
GERMAN 266	Topics in German and/or Yiddish Culture	
GERMAN 267	Yiddish Song and the Jewish Experience	
GERMAN/ JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	
GERMAN 271	The German Immigration Experience	
GERMAN 272	Nazi Culture	
GERMAN 275	Kafka and the Kafkaesque	
GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	
GERMAN 278	Topics in German Culture	
GERMAN/ LITTRANS 280	From Grimm to Gryffindor: German Fairytales (Re)imagined	
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	
GERMAN 362	Topics in German Literature	

GERMAN 367	Study Abroad in German Literature
GERMAN 368	Study Abroad in German Culture
GERMAN 372	Topics in German Culture
GERMAN 385	Honors Seminar in German Literature
GERMAN 411	Kultur des 20. und 21. Jahrhunderts
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
GERMAN 560	Topics in German Studies
GERMAN 612	German Literary Movements Since 1750
GERMAN 632	A Theme in German Literature
GERMAN 644	Theory and Practice of German Drama
GERMAN 677	Seminar in German Culture Studies
GERMAN 683	Senior Honors Seminar in German Literature
HISTORY 410	History of Germany, 1871 to the Present
LITTRANS/ GEN&WS 270	German Women Writers in Translation
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation)
PHILOS/ JEWISH 442	Moral Philosophy and the Holocaust
PHILOS 549	Great Moral Philosophers
POLI SCI 332	German Politics

### Iceland

Code	Title	Credits
<b>Iceland</b>		
LITTRANS/ MEDIEVAL 235	The World of Sagas	
LITTRANS/ FOLKLORE/ MEDIEVAL 346	In Translation: The Icelandic Sagas	
SCAND ST/ MEDIEVAL 409	Survey of Old Norse-Icelandic Literature	
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation	

### Ireland

Code	Title	Credits
<b>Ireland</b>		
ENGL 454	James Joyce	
FOLKLORE 317	The Irish Tradition	
FOLKLORE/ MEDIEVAL/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	

### Italy

Code	Title	Credits
<b>Italy</b>		
ART HIST 106	Have Brush, Will Travel: The Italian Renaissance from Florence to Rome	

ART HIST 320	Italian Renaissance Art
ART HIST 323	From Michelangelo & Raphael to Titian: The Arts in 16th Century Italy
ART HIST 336	Study Abroad in Renaissance/ Baroque/Northern Art
ART HIST 420	Topics in Italian Renaissance Art
ART HIST 425	Race and Gender in Italian Early Modern Art
ART HIST 525	Proseminar in Italian Renaissance Art
COM ARTS/ ITALIAN 460	Italian Film
HISTORY 307	A History of Rome
ITALIAN 210	Italian Studies Abroad in the Humanities I
ITALIAN 230	Modern Italian Culture
ITALIAN 310	Italian Studies Abroad in the Humanities II
ITALIAN 321	Studies in Italian Literature and Culture I
ITALIAN 322	Studies in Italian Literature and Culture II
ITALIAN/ILS 350	Rome: Lust for Glory
ITALIAN/ILS/ LITTRANS/ POLI SCI 365	Machiavelli and His World
ITALIAN 420	Topics in Italian: Study Abroad
ITALIAN 450	Special Topics in Italian Literature
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language
ITALIAN/ COM ARTS 460	Italian Film
ITALIAN 601	The 19th Century
ITALIAN 621	The 18th Century
ITALIAN 622	The 18th Century
ITALIAN 623	Italian Theatre
ITALIAN 631	Features in Italian Literature
ITALIAN 632	Features in Italian Literature
ITALIAN 636	The Italian Novel
ITALIAN 651	The Renaissance
ITALIAN/ MEDIEVAL 659	Dante's Divina Commedia
ITALIAN/ MEDIEVAL 671	The 13th Century
LITTRANS 213	Love and Sex in Italian Comedy
LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy
LITTRANS 254	In Translation: Lit of Modern Italy- Existentialism, Fascism, Resistance
LITTRANS/ MEDIEVAL 255	Black Death and Medieval Life Through Boccaccio's Decameron
LITTRANS 260	Italy and the Invention of America: from Columbus to World War II

LITTRANS 410 In Translation: Special Topics in Italian Literature

### Netherlands

Code	Title	Credits
<b>Netherlands</b>		
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	
GERMAN 245	Topics in Dutch Life and Culture	
GERMAN 325	Topics in Dutch Literature	
GERMAN 377	Study Abroad in Dutch Literature	
GERMAN 378	Study Abroad in Dutch Culture	
GERMAN 445	Topics in Dutch Culture	
GERMAN 625	Letterkunde der Lage Landen	
GERMAN 645	Cultuurkunde der Lage Landen	
LITTRANS 326	Topics in Dutch Literature in Translation	

### Norway

Code	Title	Credits
<b>Norway</b>		
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	
SCAND ST 251	Readings in Norwegian Literature	
SCAND ST 422	The Drama of Henrik Ibsen	
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	

### Poland

Code	Title	Credits
<b>Poland</b>		
HISTORY 425	History of Poland and the Baltic Area	
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	
LITTRANS 473	Polish Literature (in Translation) since 1863	
SLAVIC 231	History and Ethics on Film: Polish Cinema	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	
SLAVIC 470	History of Polish Literature until 1863	
SLAVIC 472	History of Polish Literature after 1863	

**Portugal**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Portugal</b>		
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	
PORTUG 361	Portuguese Civilization	
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 467	Survey of Portuguese Literature since 1825	

**Scandinavia**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Scandinavia</b>		
FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	
FOLKLORE/ LITTRANS/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller	
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	
HISTORY/ SCAND ST 431	History of Scandinavia to 1815	
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	
HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	
LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	
LITTRANS 324	Topics in Scandinavian Literature	
LITTRANS 331	In Translation: Scandinavian Topics in Depth	
LITTRANS 337	In Translation: 19th Century Scandinavian Fiction	
LITTRANS 340	Contemporary Scandinavian Literature in Translation	
LITTRANS 350	Scandinavian Decadence in its European Context	
MEDIEVAL/ SCAND ST 430	The Vikings	
SCAND ST 276	Culture & Community in Scandinavia	
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	
SCAND ST 411	Areas in Scandinavian Literature	
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	

SCAND ST 427	Contemporary Scandinavian Literature	
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	
SCAND ST 436	Topics in Scandinavian Literature	
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia	
SCAND ST 439	Nordic Filmmakers	
SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	
SCAND ST 450	Scandinavian Decadence in its European Context	
SCAND ST 476	Scandinavian Life and Civilization II	
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	
SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	

**Spain**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Spain</b>		
LITTRANS 252	Spanish Literary Masterpieces in Translation	
MEDIEVAL/ SPANISH 414	Literatura de la Edad Media Castellana (ss. XII-XV)	
MEDIEVAL/ SPANISH 503	Survey of Medieval Literature	
MEDIEVAL/ SPANISH 504	Survey of Medieval Literature	
SPANISH 223	Introduction to Hispanic Cultures	
SPANISH 224	Introduction to Hispanic Literatures	
SPANISH 322	Survey of Early Hispanic Literature	
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 361	Spanish Civilization	
SPANISH 417	Literatura del Siglo de Oro	
SPANISH 435	Cervantes	
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	
SPANISH 453	Literature of the Twentieth Century	
SPANISH 475	Study Abroad in Hispanic Literatures	
SPANISH 476	Study Abroad in Hispanic Cultures	
SPANISH 505	Advanced Survey of Spanish Literature	
SPANISH 506	Advanced Survey of Spanish Literature	

<b>Sweden</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Sweden</b>		
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	
SCAND ST 261	Readings in Swedish Literature	
SCAND ST 423	The Drama of August Strindberg	
THEATRE/ LITTRANS 336	In Translation: The Drama of August Strindberg	
<b>Switzerland</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Switzerland</b>		
FRENCH 568	Undergraduate Seminar in French/ Francophone Cultural Studies	
<b>Turkey</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Turkey</b>		
GNS 460	Readings in Turkish: Contemporary Turkey through Literature and Media	
<b>United Kingdom</b>		
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>United Kingdom</b>		
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	
ENGL 162	Shakespeare	
ENGL 167	British and American Writers	
ENGL 219	Shakespearean Drama	
ENGL 220	Shakespearean Drama	
ENGL 279	Topics in English, Study Abroad - Literature	
ENGL 328	The Sixteenth Century	
ENGL 331	Seventeenth-Century Literature and Culture	
ENGL 334	Eighteenth Century Literature and Culture	
ENGL 335	Stage and Page in the Long Eighteenth Century	
ENGL 336	Eighteenth-Century Novel	
ENGL 340	Romantic Literature and Culture	
ENGL 345	Nineteenth-Century Novel	
ENGL 346	Victorian Poetry	
ENGL 351	Modernist Novel	
ENGL 353	British Literature since 1900	
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	
ENGL 422	Outstanding Figure(s) in Literature before 1800	
ENGL/ MEDIIEVAL 423	Topic in Medieval Literature and Culture	

ENGL/ MEDIIEVAL 424	Medieval Drama
ENGL/ MEDIIEVAL 425	Medieval Romance
ENGL/ MEDIIEVAL 426	Chaucers Courtly Poetry
ENGL/ MEDIIEVAL 427	Chaucer's Canterbury Tales
ENGL 430	Topic in Early Modern Literature and Culture
ENGL 431	Early Works of Shakespeare
ENGL 432	Later Works of Shakespeare
ENGL 433	Spenser
ENGL/ RELIG ST 434	Milton
ENGL 438	Topic in Eighteenth-Century Literature and Culture
ENGL 443	Outstanding Figure(s) in Literature since 1800
ENGL 444	Topic in Romantic or Victorian Literature and Culture
ENGL 453	Topic in British Literature and Culture since 1900
ENGL/ MEDIIEVAL 520	Old English
ENGL 546	Topic in Travel Writing before 1800
ENGL/ THEATRE 575	British Drama, 1914 to Present
ENVIR ST 307	Literature of the Environment: Speaking for Nature
FOLKLORE 518	The Scottish Tradition
HISTORY 123	English History: England to 1688
HISTORY 124	British History: 1688 to the Present
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons
HISTORY 361	The Emergence of Mod Britain: England 1485-1660
HISTORY 367	Society and Ideas in Shakespeare's England
HISTORY/ ED POL 622	History of Radical and Experimental Education in the US and UK
MEDIIEVAL/ ENGL 423	Topic in Medieval Literature and Culture
THEATRE/ ENGL 575	British Drama, 1914 to Present

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.500 GPA on all certificate courses.
- At least 11 certificate credits must be completed in residence.



## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. (Historical Grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking seven courses on three particular sub-regions or countries or by taking seven courses on the region in more than one discipline
4. (Language knowledge) mastering at undergraduate generalist level a particular facet of life in the region by studying a regional language to the intermediate level.

### ADVISING AND CAREERS

Advising (<https://europe.wisc.edu/certificate/>) for the certificate is through the Institute for Regional and International Studies (IRIS). The IRIS Assistant Director for Students and Curriculum can assist students in developing a plan of study for the certificate, track progress toward the certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

Faculty: Copelovitch (Director, Political Science and Public Affairs), Ringe (Political Science), Brossard (Life Sciences Communication), Covington (European Studies), Klug (Law), Livorni (French and Italian), Olds (Geography), Potter (German), Klocke (Director, CGES, GNS+), Wolf (Scandinavian Studies)

### WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies, we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who wants it.

### RESOURCES AND SCHOLARSHIPS

Information about funding through the Center for European Studies is available from our website (<http://europe.wisc.edu/outreach-opportunities/>). We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## INTERNATIONAL STUDIES, B.A.

International studies (IS) is an interdisciplinary major with a broad background in international and transnational political, social, economic, commercial, and environmental affairs, together with a comparative study of politics, economics, security, and culture. The goal is to provide students with the necessary tools to understand global processes in their totality and how they are situated and lived in specific regions. The major provides an integrated program of courses that lays the foundation for professional training in a wide variety of areas. Such a foundation can be invaluable in securing a place in competitive graduate or professional schools, which, in turn, prepare students for government service, or for

other careers with an international focus, including those in multinational corporations, international finance, non-governmental organizations, and institutions of teaching and research.

The IS major complements numerous majors across campus. Many students choose to double major or enhance their studies with one or more certificates, such as the global health certificate or those offered by the area studies centers.

This major is interdisciplinary, offering a wealth of options. Careful planning and consultation with the IS advisor is especially important.

## IS MAJORS SPECIALIZE IN ONE OF THREE OPTIONS:

### Option I: Global Security

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

### Option II: Politics and Policy in the Global Economy

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, US trade imbalances, aid and development, and related environmental and natural resource problems.

### Option III: Culture in the Age of Globalization

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

## STUDY ABROAD

International studies and studying abroad are a natural combination. While study abroad is not a requirement for the major, all IS students are strongly encouraged to pursue a significant international experience during the course of the undergraduate career. Whether through a study abroad program, an internship, or service learning, the experience of studying or working in a foreign culture is invaluable. Many courses taken abroad will count toward the IS major. See the IS advisor for specific guidelines. More information about study abroad and internships is available through International Academic Programs (<http://www.studyabroad.wisc.edu/>).

### HOW TO GET IN

Students are advised to declare the major by the end of the sophomore year and/or before studying abroad.

To be eligible to declare the international studies major a student must have completed these courses:

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
	Introductory Economics (complete one):	4-8

ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics
ECON 111	Principles of Economics-Accelerated Treatment <sup>2</sup>
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics
POLI SCI 350	International Political Economy

**Complete the 5th unit of a foreign language** **3-4**

Consult the list of Foreign Language courses on the Requirements page

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics	Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.
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Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS OF THE MAJOR

Students must declare the major, complete the common requirements, and the requirements for one of these options (p. 918) within the international studies major:

- Culture in the Age of Globalization
- Global Security
- Politics and Policy in the Global Economy

A student may not declare or earn more than one major option. The major requires 35 credits total.<sup>1</sup>

## COMMON MAJOR REQUIREMENTS

### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
<b>Introductory Economics (complete one of the following):</b>		<b>4-8</b>
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	

A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics	
POLI SCI 350	International Political Economy	
<b>Foreign Language (Complete one):</b>		<b>3-4</b>
AFRICAN 329	Fifth Semester Arabic	
AFRICAN 330	Sixth Semester Arabic	
AFRICAN 343	Fifth Semester Summer Arabic	
AFRICAN 344	Sixth Semester Summer Arabic	
AFRICAN 435	Fifth Semester Swahili	
AFRICAN 436	Sixth Semester Swahili	
AFRICAN 445	Advanced Readings in Arabic Texts	
AFRICAN 475	Fifth Semester Yoruba	
AFRICAN 476	Sixth Semester Yoruba	
ASIALANG 301	Fifth Semester Chinese	
ASIALANG 302	Sixth Semester Chinese	
ASIALANG 303	Fifth Semester Japanese	
ASIALANG 304	Sixth Semester Japanese	
ASIALANG 305	Fifth Semester Korean	
ASIALANG 306	Sixth Semester Korean	
ASIALANG 323	Fifth Semester Filipino	
ASIALANG 324	Sixth Semester Filipino	
ASIALANG 325	Fifth Semester Hmong	
ASIALANG 326	Sixth Semester Hmong	
ASIALANG 348	Fifth Semester Indonesian	
ASIALANG 328	Sixth Semester Indonesian	
ASIALANG 329	Fifth Semester Thai	
ASIALANG 330	Sixth Semester Thai	
ASIALANG 331	Fifth Semester Vietnamese	
ASIALANG 332	Sixth Semester Vietnamese	
ASIALANG 333	Fifth Semester Hindi	
ASIALANG 334	Sixth Semester Hindi	
ASIALANG 335	Fifth Semester Tibetan	
ASIALANG 336	Sixth Semester Tibetan	
ASIALANG 337	Fifth Semester Persian	
ASIALANG 338	Sixth Semester Persian	
ASIALANG 339	Fifth Semester Urdu	
ASIALANG 340	Sixth Semester Urdu	
ASIALANG 343	Fifth Semester Burmese	
ASIALANG 344	Sixth Semester Burmese	
ASIALANG 345	Fifth Semester Khmer	
ASIALANG 346	Sixth Semester Khmer	
ASIALANG 507	Fifth Semester Southeast Asian Language	
ASIALANG 508	Sixth Semester Southeast Asian Language	
ASIALANG 517	Fifth Semester South Asian Language	
ASIALANG 527	Sixth Semester South Asian Language	
ASIAN 355	Modern Japanese Literature	
ESL 118	Academic Writing II <sup>1</sup>	
FRENCH 228	Intermediate Language and Culture	

FRENCH 271	Literature, Comics, and Film in French	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
FRENCH 311	Advanced Composition and Speaking	GERMAN 625	Letterkunde der Lage Landen
FRENCH 312	Advanced Writing Workshop	GERMAN 632	A Theme in German Literature
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	GERMAN 645	Cultuurkunde der Lage Landen
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	GERMAN 677	Seminar in German Culture Studies
FRENCH 321	Medieval and Early Modern French Literature	GREEK 401	Readings in Greek Literature
FRENCH 322	Modern French and Francophone Literature	GREEK 505	Elementary Prose Composition
FRENCH 325	Visual Culture in French/ Francophone Studies	GREEK 510	Homer
FRENCH 347	Medieval and Early Modern Culture	GREEK 511	Hesiod
FRENCH 348	Modernity Studies	GREEK 512	Greek Lyric Poets
FRENCH 350	Applied French Language Studies	GREEK 520	Greek Comedy
FRENCH/ ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	GREEK 521	Greek Tragedy
FRENCH 430	Readings in Medieval and Renaissance Literature	GREEK 532	Thucydides
FRENCH 431	Readings in Early Modern Literature	GREEK 551	Attic Orators
FRENCH 449	Francophone Modernity Studies	GREEK 560	Hellenistic Greek
FRENCH 461	French/Francophone Literary Studies Across the Centuries	HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature
FRENCH 472	French/Francophone Literature and Women	HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I
FRENCH 590	Introduction to Phonetics	HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II
GERMAN 235	Dutch Conversation and Composition	HEBR-BIB/ JEWISH 513	Biblical Texts, Poetry
GERMAN 249	Intermediate German - Speaking and Listening	HEBR-BIB/ JEWISH 514	Biblical Texts, Poetry
GERMAN 258	Intermediate German-Reading	ITALIAN 230	Modern Italian Culture
GERMAN 262	Intermediate German-Writing	ITALIAN 311	Advanced Italian Language
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	ITALIAN 312	Writing Workshop
GERMAN 313	Third Semester Dutch for Graduate Students	ITALIAN 321	Studies in Italian Literature and Culture I
GERMAN 325	Topics in Dutch Literature	ITALIAN 322	Studies in Italian Literature and Culture II
GERMAN 337	Advanced Composition & Conversation	ITALIAN/ FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages
GERMAN 351	Introduction to German Linguistics	ITALIAN 450	Special Topics in Italian Literature
GERMAN 352	Topics in German Linguistics	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language
GERMAN 367	Study Abroad in German Literature	ITALIAN 601	The 19th Century
GERMAN 368	Study Abroad in German Culture	ITALIAN 621	The 18th Century
GERMAN 369	Study Abroad in German Linguistics	ITALIAN 631	Features in Italian Literature
GERMAN 377	Study Abroad in Dutch Literature	ITALIAN 636	The Italian Novel
GERMAN 378	Study Abroad in Dutch Culture	ITALIAN 651	The Renaissance
GERMAN 379	Study Abroad in Dutch Linguistics	ITALIAN/ MEDIIEVAL 659	Dante's Divina Commedia
		ITALIAN/ MEDIIEVAL 671	The 13th Century
		JEWISH/HEBR-MOD 301	Introduction to Hebrew Literature
		LATIN 302	Latin Literature of the Roman Empire
		LATIN 401	Readings in Latin Literature

LATIN 505	Elementary Prose Composition
PORTUG 225	Third Year Conversation and Composition
PORTUG 226	Third Year Conversation and Composition
PORTUG 311	Fourth Year Composition and Conversation
PORTUG 312	Fourth Year Composition and Conversation
SCAND ST 251	Readings in Norwegian Literature
SCAND ST 261	Readings in Swedish Literature
SCAND ST 271	Readings in Danish Literature
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
SCAND ST 401	Contemporary Scandinavian Languages
SCAND ST 419	Scandinavian Children's Literature
SCAND ST 422	The Drama of Henrik Ibsen
SCAND ST 423	The Drama of August Strindberg
SCAND ST 424	Nineteenth-Century Scandinavian Fiction
SCAND ST 426	Kierkegaard and Scandinavian Literature
SCAND ST 427	Contemporary Scandinavian Literature
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation
SCAND ST 496	The Scandinavian Heritage in America
SLAVIC 275	Third Year Russian I
SLAVIC 276	Third Year Russian II
SLAVIC 277	Third Year Polish I
SLAVIC 278	Third Year Polish II
SLAVIC 307	Study Abroad in Poland
SLAVIC 308	Polish Culture and Area Studies on Study Abroad
SLAVIC 309	Russian Area Studies on Study Abroad
SLAVIC 315	Russian Language and Culture I
SLAVIC 316	Russian Language and Culture II
SLAVIC 321	Fourth Year Russian I
SLAVIC 322	Fourth Year Russian II
SLAVIC 331	Fourth Year Polish I
SLAVIC 332	Fourth Year Polish II
SLAVIC 420	Chekhov
SLAVIC 421	Gogol
SLAVIC 422	Dostoevsky
SLAVIC 424	Tolstoy
SLAVIC 440	Soviet Literature
SLAVIC 472	History of Polish Literature after 1863

SPANISH 223	Introduction to Hispanic Cultures
SPANISH 224	Introduction to Hispanic Literatures
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar
SPANISH 311	Advanced Language Practice
SPANISH 319	Topics in Spanish Language Practice
SPANISH 320	Spanish Phonetics
SPANISH 322	Survey of Early Hispanic Literature
SPANISH 327	Introduction to Spanish Linguistics
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH 417	Literatura del Siglo de Oro
SPANISH 435	Cervantes
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 466	Topics in Spanish American Literature
SPANISH 468	Topics in Hispanic Culture
SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics

**Total Credits** **10-16**

## AREA STUDIES

Code	Title	Credits
<b>Complete one of:</b>		
AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	<b>3-4</b>
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	
GEOG 340	World Regions in Global Context	
HISTORY 120	Europe and the Modern World 1815 to the Present	
HISTORY 139	Introduction to the Modern Middle East	
HISTORY 142	History of South Asia to the Present	
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	
HISTORY/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	

HISTORY/ ASIAN 341	History of Modern China, 1800-1949
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present
HISTORY 348	France from Napoleon to the Great War, 1799-1914
HISTORY 349	Contemporary France, 1914 to the Present
HISTORY 359	History of Europe Since 1945
HISTORY 410	History of Germany, 1871 to the Present
HISTORY 424	The Soviet Union and the World, 1917-1991
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
INTL ST 266	Introduction to the Middle East
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey

**Total Credits****3-4**

## COMPLETE THE OPTION CORE AND ISSUES AND ADDITIONAL ELECTIVES OF THE DECLARED OPTION (P. 918)

## OPTIONS IN THE MAJOR

View as listView as grid

- INTERNATIONAL STUDIES: CULTURE IN AN AGE OF GLOBALIZATION (P. 921)
- INTERNATIONAL STUDIES: GLOBAL SECURITY (P. 932)
- INTERNATIONAL STUDIES: POLITICS AND POLICY IN THE GLOBAL ECONOMY (P. 943)

Each option in the major **requires 35 credits**. This is in addition to completing the introductory requirements. Students select one Area Studies course (above), and the option-specific requirements for Core, Issues, and Elective classes.<sup>1</sup>

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all INTL ST courses and courses approved for the major
- 2.000 GPA on 15 Upper-Level major credits, taken in residence<sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the International Studies Major in consultation with the International Studies advisor(s). They must declare

prior to enrollment in their Senior Honors Thesis (typically second semester of junior year).

## REQUIREMENTS FOR HONORS IN THE MAJOR

To earn Honors in the Major in International Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in major courses
- Complete 16 upper-level major credits, taken for Honors, with individual grades of B or better in each course<sup>2, 3</sup>
- Complete a two-semester Senior Honors Thesis, for a total of 6 credits, or two Senior Seminars, with grades of B or better; choose from:

Code	Title	Credits
<b>Senior Honors Thesis (2 courses):</b>		
AFRICAN 681 & AFRICAN 682	Senior Honors Thesis and Senior Honors Thesis	
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis	
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	
HISTORY 681 & HISTORY 682	Senior Honors Thesis and Senior Honors Thesis	
INTL ST 681 & INTL ST 682	Senior Honors Thesis and Senior Honors Thesis	
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis	
PORTUG 681 & PORTUG 682	Senior Honors Thesis and Senior Honors Thesis	
SLAVIC 681 & SLAVIC 682	Senior Honors Thesis and Senior Honors Thesis	
SPANISH 681 & SPANISH 682	Senior Honors Thesis and Senior Honors Thesis	
<b>Senior Seminar (2 courses):</b>		
INTL ST 601	Topics in Global Security	
INTL ST 602	Topics in Politics and Policy in the Global Economy	
INTL ST 603	Topics in Culture in the Age of Globalization	

## FOOTNOTES

1

A maximum four courses from a single SUBJECT may be applied to the 35 credits in the major. This excludes INTL ST courses and courses cross-listed in INTL ST. For example: A student with five POLI SCI courses that could apply to the major will see only four of those courses applying in the International Studies major. (However, if one of those POLI SCI courses is also cross-listed in INTL ST, that course will not count against the limit, and thus, all five POLI SCI courses will apply in the major.) The degree audit (DARS) enforces this limitation.

Though some courses are identified as acceptable for two or more requirements, a course may meet only one requirement within the major. For example, a course that could count in either Option Core or Option Issues will meet only one of those requirements, based on which requirement needs that course to become satisfied. The degree audit (DARS) determines the best scenario.

2

Major courses designated Intermediate and Advanced level are considered upper-level.

3

A maximum of two courses and 8 credits from UW–Madison Study Abroad may apply to this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Interdisciplinarity) analyzing contemporary political, economic, security and cultural realities globally from multi-disciplinary perspectives, ideally including humanities, social sciences, humanitarian, and sometimes natural science approaches.
- (Depth of knowledge) mastering at the undergraduate generalist level major issues related to key themes in International Studies (e.g. culture, global security and political economy) by taking 15 credits in one particular theme area.

- (Regional (studies) grounding) understanding the social, political, economic and cultural forces and conditions that have given rise to the unity and diversity of a specific region of the world today.
- (Language knowledge) mastering at the undergraduate generalist level a particular facet of life in one or more region of the world by studying a foreign language to at least the advanced (5th semester) level.
- (Analytical skills) demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
INTL ST 101		4 ECON 101	4
ILS 138		1 Foreign Language	4
Foreign Language		4 Communication B	4
Communication A		3 Physical Science Breadth	3
Quantitative Reasoning A		3	
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
Declare the IS Major (before 86 credits)		Issues in IS Major	3
ECON 102		3 Issues in IS Major	3
Foreign Language		4 Foreign Language Language	4
Area Studies in IS Major		3 Ethnic Studies	3
Biological Science Breadth		3 Literature Breadth	3
		Apply for Summer Internship	
	<b>13</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
Recommend Study Abroad		Recommend Study Abroad	
Issues in IS Major		3 Issues in IS Major	3
Issues in IS Major		3 Elective in IS Major	4
5th Semester Language		3 L&S Breadth	3
L&S Breadth		3 L&S Breadth	3
L&S Breadth		3 Free Elective (or I/A level Math, Comp Sci, or Stats for BS)	3

		Apply for Summer Internship	
		15	16
<b>Senior</b>			
Fall	Credits	Spring	Credits
Track Core in IS Major	3	Track Core in IS Major	3
Elective in IS Major	3	Elective in IS Major	3
L&S Breadth	3	Elective in IS Major	3
L&S Breadth	3	L&S Breadth	3
Free Elective (or IA level Math, Comp Sci, or Stats for BS)	3	Free Elective	3
		15	15
<b>Total Credits 120</b>			

## ADVISING AND CAREERS

### INTERNATIONAL STUDIES MAJOR ADVISING STAFF

International studies majors have a wide variety of academic advising and career resources and support. Academic advising is essential to a successful undergraduate experience. For this reason, the international studies major has a professional advisor, a peer advisor, and a career advisor. We recommend that you meet with your advisor at least once per semester to track progress toward your degree, explore study abroad options, and begin the career exploration process. The IS major offers walk-in advising, advising workshops, and scheduled appointments. Students exploring the IS major should plan to attend an Intro to the IS Major workshop, watch the Intro to the IS Major video, or meet with a peer advisor. To learn more about academic advising information, please visit the IS Major website (<https://ismajor.wisc.edu/academic-advising/>).

Students should also begin the career advising process early. The international studies major offers a 1-credit career class designed for sophomores or juniors. Students are strongly encouraged to meet with both the IS career advisor and SuccessWorks at the College of Letters & Science, and to apply for internship opportunities—both domestically and via International Internship Programs or the Washington DC Internship Program. The IS major also advertises career events across campus that will benefit undergraduate students, hosts career workshops, and has a transition checklist to help students prepare for post-undergraduate life. For more information, please visit our website (<https://ismajor.wisc.edu/career-advising/>).

**Molly Donnellan, Academic Advisor**  
**Csanád Siklós, Ph.D., Academic Advisor**  
**Lindsey Bliefernicht, M.S., Academic Advisor**  
**Joel Clark, Ph.D., Career Advisor**

### LETTERS & SCIENCE CAREER RESOURCES

The program encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks (<https://careers.ls.wisc.edu>) at the College of Letters & Science. L&S graduates are in high demand by employers and graduate

programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

The International Studies Major is directed by Dr. Erica Simmons, Associate Professor of Political Science.

The advisors for the international studies major are Molly Donnellan, Lindsey Bliefernicht, and Dr. Csanád Siklós.

The career advisor is Dr. Joel Clark.

Please visit our website for a list of faculty and instructional staff (<https://ismajor.wisc.edu/people/>).

### WISCONSIN EXPERIENCE

#### STUDY ABROAD

International studies majors are strongly encourage to study abroad. The International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/study-abroad/>) provides information about how to plan your experience abroad.



## INTERNSHIP ABROAD

International studies majors are strongly encourage to study abroad. Please review information on the International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/internships/>) and the International Internship Program website (<http://internships.international.wisc.edu/>) about opportunities.

## UNDERGRADUATE RESEARCH

The international studies major encourages students to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

For information on scholarships and awards through the IS Major please see our website (<https://ismajor.wisc.edu/scholarships-and-grants/>) or contact our advisors. IS Majors are also strongly encouraged to contact the Awards Office (<https://iris.wisc.edu/funding/>) at the Institute for Regional and International Studies to explore multiple international awards and scholarships.

## INTERNATIONAL STUDIES: CULTURE IN AN AGE OF GLOBALIZATION

### REQUIREMENTS

## CULTURE IN THE AGE OF GLOBALIZATION OPTION REQUIREMENTS

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Culture in the Age of Globalization Option:

## CULTURE IN THE AGE OF GLOBALIZATION CORE

Code	Title	Credits
<b>Complete Two of:</b>		<b>6</b>
AFRICAN 403	Theories of African Cultural Studies	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 669	Special Topics (Celebrity Culture)	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	
ASIAN 630	Proseminar: Studies in Cultures of Asia	
COM ARTS 458	Global Media Cultures	
GEN&WS 420	Women in Cross-Societal Perspective	
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
HISTORY 403	Immigration and Assimilation in American History	
HISTORY 600	Advanced Seminar in History (Global Religious Revivals)	
INTL ST 403	Topics in Culture in the Age of Globalization	
INTL ST 603	Topics in Culture in the Age of Globalization	
INTL ST 620	Topics in International Studies (Global Social Networks)	
JOURN 620	International Communication	
JOURN 621	Mass Communication in Developing Nations	
LINGUIS/ ANTHRO 430	Language and Culture	
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants and Refugees)	
PSYCH 428	Introduction to Cultural Psychology	
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	
<b>Total Credits</b>		<b>6</b>

## CULTURE IN THE AGE OF GLOBALIZATION ISSUES

Code	Title	Credits
<b>Complete 15 credits from:</b>		<b>15</b>
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	

AFRICAN 300	African Literature in Translation (Arabic Fiction & Falsehood)	ANTHRO 330	Topics in Ethnology
AFRICAN 300	African Literature in Translation (Contemp Arabic Lit & Cinema)	ANTHRO 350	Political Anthropology
AFRICAN 300	African Literature in Translation (African Coming of Age Stories)	ANTHRO 357	Introduction to the Anthropology of Japan
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	ANTHRO 490	Undergraduate Seminar
AFRICAN 403	Theories of African Cultural Studies	ANTHRO 606	Ethnicity, Nations, and Nationalism
AFRICAN 412	Contemporary African Fiction	ART HIST 350	19th Century Painting in Europe
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	ART HIST 351	20th Century Art in Europe
AFRICAN/ FRENCH 440	African/Francophone Film	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
AFRICAN/ PORTUG 451	Lusophone African Literature	ART HIST 372	Arts of Japan
AFRICAN 453	Modern African Literature in English	ART HIST/ RELIG ST 373	Great Cities of Islam
AFRICAN 500	Language and Society in Africa	ART HIST 411	Topics in Asian Art
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	ART HIST 454	Art in Germany, 1900-1945
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	ART HIST 479	Art and History in Africa
AFROAMER/ ANTHRO/ C&E SOC/GEORG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	ART HIST 510	Proseminar in Islamic Art and Architecture
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	ASIAN 253	Japanese Popular Culture
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	ASIAN 300	Topics in Asian Studies
AFROAMER/ AFRICAN/ ANTHRO/ GEORG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	ASIAN 311	Modern Indian Literatures
AFROAMER 303	Blacks, Film, and Society	ASIAN 352	Survey of Modern Chinese Literature
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	ASIAN 355	Modern Japanese Literature
AFROAMER/ GEN&WS 333	Black Feminisms	ASIAN 357	Japanese Ghost Stories
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	ASIAN 374	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	ASIAN 375	Survey of Chinese Film
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings	ASIAN 376	Manga
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	ASIAN 378	Anime
ANTHRO 322	The Origins of Civilization	ASIAN/ ART HIST 379	Cities of Asia
		ASIAN 403	Southeast Asian Literature
		ASIAN/ ART HIST 428	Visual Cultures of India
		ASIAN 563	Readings in Modern Japanese Literature
		ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces
		ASIAN 655	Ethnography in Asia
		ASIAN AM/ ENGL 270	A Survey of Asian American Literature
		C&E SOC/ SOC 245	Technology and Society
		C&E SOC/SOC/ URB R PL 617	Community Development
		CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
		COM ARTS 346	Critical Internet Studies
		COM ARTS 350	Introduction to Film
		COM ARTS 352	Film History to 1960
		COM ARTS 372	Rhetoric of Campaigns and Revolutions

COM ARTS 372	Rhetoric of Campaigns and Revolutions	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	FRENCH 465	French/Francophone Film
COM ARTS 455	French Film	FRENCH 467	Aspects of Contemporary French Literature
COM ARTS 458	Global Media Cultures	FRENCH 472	French/Francophone Literature and Women
COM ARTS/ ITALIAN 460	Italian Film	GEN&WS/ ENGL 250	Women in Literature
COM ARTS 470	Contemporary Political Discourse	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)
COM ARTS 557	Contemporary Media Industries	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)
COM ARTS 577	Dynamics of Online Relationships	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Global Detectives-Fiction and Film)	GEN&WS 420	Women in Cross-Societal Perspective
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Calling Planet Earth)	GEOG 101	Introduction to Human Geography
COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Intro, Comics & Graphic Novels)	GEOG 301	Revolutions and Social Change
DS 527	Global Artisans	GEOG/ URB R PL 305	Introduction to the City
DS/ LAND ARC 639	Culture and Built Environment	GEOG 340	World Regions in Global Context
ED POL 150	Education and Public Policy (Human Rights & Education)	GEOG 349	Europe
ED POL 240	Comparative Education	GEOG 355	Africa, South of the Sahara
ED POL/ ANTHRO 570	Anthropology and Education	GEOG 358	Human Geography of Southeast Asia
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	GEOG 475	Topics in Geography (International Migration and Health)
ENGL 174	Literature and Social Justice	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance and Multiculturalism)
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water?)
ENGL 352	Modernist Poetry	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)
ENGL 353	British Literature since 1900	GERMAN 278	Topics in German Culture (Culture in 20th Century)
ENGL 453	Topic in British Literature and Culture since 1900	GERMAN 305	Literatur des 20. und 21. Jahrhunderts
ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)
ENGL/ ENVIR ST 533	Topic in Literature and the Environment	GERMAN 325	Topics in Dutch Literature (lit.reizen,migratie)
ENGL/ THEATRE 575	British Drama, 1914 to Present	GERMAN 362	Topics in German Literature
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)
FOLKLORE 510	Folklore Theory	GERMAN 372	Topics in German Culture (Oesterreich: Natur als Kultur)
FRENCH 211	French Literary and Interdisciplinary Studies	GERMAN 372	Topics in German Culture (Deutscher Film)
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	GERMAN 372	Topics in German Culture (Green Germany/Gruenes Deutschland)
FRENCH 322	Modern French and Francophone Literature	GERMAN 372	Topics in German Culture (Theater auf Deutsch)
FRENCH 325	Visual Culture in French/Francophone Studies	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
FRENCH 348	Modernity Studies		
FRENCH 449	Francophone Modernity Studies		

GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	INTL ST 603	Topics in Culture in the Age of Globalization
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	INTL ST 620	Topics in International Studies
GERMAN/ COM ARTS 655	German Film	INTL ST 622	Washington DC Sem in International Affairs Seminar
HISTORY 201	The Historian's Craft (The Catholic Church)	ITALIAN 230	Modern Italian Culture
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	ITALIAN 322	Studies in Italian Literature and Culture II
HISTORY 223	Explorations in European History (H) (Cold War in European Culture)	ITALIAN 450	Special Topics in Italian Literature (Theater Wkshop: Text to Stage)
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language
HISTORY 223	Explorations in European History (H) (Picturing history: Visual, Culture, and Memory in Modern Europe)	ITALIAN/ COM ARTS 460	Italian Film
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)	JEWISH/ LITTRANS 367	Israeli Fiction in Translation
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
HISTORY 241	Latin America from 1780 to 1940	JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	JEWISH/ ENGL 539	Jewish Literatures in Diaspora
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	JOURN 620	International Communication
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	JOURN 621	Mass Communication in Developing Nations
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	L I S 201	The Information Society
HISTORY 403	Immigration and Assimilation in American History	LINGUIS/ ANTHRO 430	Language and Culture
HISTORY 420	Russian Social and Intellectual History	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II
HISTORY 533	Multi-Racial Societies in Latin America	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
HISTORY 607	The American Impact Abroad: The Historical Dimension	LITTRANS 220	Chekhov: The Drama of Modern Life
INTL ST/ AFRICAN 302	Arabic Literature and Cinema	LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	LITTRANS 222	Dostoevsky in Translation
INTL ST/ ED POL 335	Globalization and Education	LITTRANS 224	Tolstoy in Translation
INTL ST 403	Topics in Culture in the Age of Globalization	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
		LITTRANS 240	Soviet Literature in Translation
		LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust in Poland)
		LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance
		LITTRANS/ GEN&WS 270	German Women Writers in Translation

LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Literature)	SLAVIC 242	Literatures and Cultures of Eastern Europe
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	SLAVIC 321	Fourth Year Russian I
LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust, Memory)	SLAVIC 322	Fourth Year Russian II
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	SLAVIC 405	Women in Russian Literature
LITTRANS 331	In Translation: Scandinavian Topics in Depth	SLAVIC 433	History of Russian Culture
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	SLAVIC 434	Contemporary Russian Culture
LITTRANS 368	Modern Japanese Fiction	SLAVIC 440	Soviet Literature
LITTRANS 373	Topics in Japanese Literature (Evangelion)	SLAVIC 449	History of Serbo-Croatian Literature
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	SLAVIC 454	Modern Serbo-Croatian Literature
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	SLAVIC 472	History of Polish Literature after 1863
LITTRANS 473	Polish Literature (in Translation) since 1863	SOC 170	Population Problems
MUSIC/ FOLKLORE 402	Musical Cultures of the World	SOC 496	Topics in Sociology (Intercultural Dialogues)
MUSIC 416	Survey of Music in the Twentieth Century	SOC 496	Topics in Sociology (Soc, Cul, Pol Contemporary Russia)
POLI SCI 363	Literature and Politics	SOC 626	Social Movements
PORTUG/ GEN&WS 450	Brazilian Women Writers	SOC 640	Sociology of the Family
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	SOC 646	Race and Ethnic Relations
PSYCH 428	Introduction to Cultural Psychology	SOC/ ED POL 648	Sociology of Education
RELIG ST/ ANTHRO 343	Anthropology of Religion	SPANISH/ LACIS 285	Race and Culture in the Americas
SCAND ST 251	Readings in Norwegian Literature	SPANISH 324	Survey of Modern Spanish Literature
SCAND ST 261	Readings in Swedish Literature	SPANISH 326	Survey of Spanish American Literature
SCAND ST 271	Readings in Danish Literature	SPANISH 361	Spanish Civilization
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	SPANISH 363	Spanish American Civilization
SCAND ST 427	Contemporary Scandinavian Literature	SPANISH 453	Literature of the Twentieth Century
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	SPANISH 460	Literatura Hispanoamericana
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)	SPANISH 461	The Spanish American Short Story
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	SPANISH 462	Spanish American Theater and Drama
SCAND ST 476	Scandinavian Life and Civilization II	SPANISH 464	Spanish American Poetry and Essay
SCAND ST 520	Special Topics (Humor and Noir)	SPANISH 468	Topics in Hispanic Culture (Documentary Film and Non-Fiction Writing)
		SPANISH 477	Latin American Rock Cultures
		SPANISH/ CHICLA 478	Border and Race Studies in Latin America
		THEATRE 327	History of Costume for the Stage
		THEATRE 351	Fundamentals of Asian Stage Discipline
		THEATRE 424	Contemporary World Theatre and Dramatic Literature
		THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
		THEATRE 526	The Theatres of China and Japan

THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South

## ELECTIVES

To complete the 35 credits required for the major, additional courses may be necessary. These courses can be additional Issues courses within the major option, or Issues courses from the other major options.

Code	Title	Credits
<i>Approved Elective courses:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 300	African Literature in Translation	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ PORTUG 451	Lusophone African Literature	
AFRICAN 453	Modern African Literature in English	
AFRICAN 500	Language and Society in Africa	
AFRICAN 609	Advanced Topics in Global Black Music Studies	

AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER/ ART HIST 242	Introduction to Afro-American Art
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama
ANTHRO 300	Cultural Anthropology: Theory and Ethnography
ANTHRO 339	Archaeology of Warfare and Human Nature
ANTHRO 350	Political Anthropology
ANTHRO 357	Introduction to the Anthropology of Japan
ANTHRO 365	Medical Anthropology
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)
ANTHRO 606	Ethnicity, Nations, and Nationalism
ART HIST 350	19th Century Painting in Europe
ART HIST 351	20th Century Art in Europe
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST 372	Arts of Japan
ART HIST 411	Topics in Asian Art (Modern & Contempor)
ART HIST 454	Art in Germany, 1900-1945
ART HIST 479	Art and History in Africa
ASIAN 253	Japanese Popular Culture
ASIAN 300	Topics in Asian Studies (Sexuality in South Asia)
ASIAN/ RELIG ST 306	Hinduism

ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	COMP LIT 203	Introduction to Cross-Cultural Literary Forms
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	CURRIC 292	Globalizing Education
ASIAN 355	Modern Japanese Literature	CURRIC 366	Internationalizing Educational Knowledge
ASIAN/ HISTORY 363	China and World War II in Asia	DS/ LAND ARC 639	Culture and Built Environment
ASIAN 403	Southeast Asian Literature	ECON 330	Money and Banking
ASIAN/ ART HIST 428	Visual Cultures of India	ECON 364	Survey of International Economics
ASIAN 563	Readings in Modern Japanese Literature	ECON 370	Economics of Poverty and Inequality
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	ECON 390	Contemporary Economic Issues
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	ED POL 420	Education in East Asia
ATM OCN 100	Weather and Climate	ED POL 423	Education for Global Change
ATM OCN 101	Weather and Climate	ECON 461	International Macroeconomics
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	ECON 464	International Trade
ATM OCN/ ENVIR ST 520	Bioclimatology	ECON/ HISTORY 466	The American Economy Since 1865
ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change	ECON 467	International Industrial Organizations
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	ECON 475	Economics of Growth
BOTANY 240	Plants and Humans	ED POL 150	Education and Public Policy (Human Rights & Education)
C&E SOC/ SOC 245	Technology and Society	ED POL 220	Human Rights and Education
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	ED POL 240	Comparative Education
C&E SOC/SOC/ URB R PL 617	Community Development	ED POL/ INTL ST 335	Globalization and Education
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration	ED POL/ ANTHRO 570	Anthropology and Education
COM ARTS 346	Critical Internet Studies	ED POL 595	Language Politics and Education
COM ARTS 350	Introduction to Film	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK
COM ARTS 352	Film History to 1960	ED POL 675	Introduction to Comparative and International Education
COM ARTS 371	Communication and Conflict Resolution	ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies
COM ARTS 372	Rhetoric of Campaigns and Revolutions	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	ENGL 352	Modernist Poetry
COM ARTS/ ASIAN 443	Indian Cinema and Beyond	ENGL 353	British Literature since 1900
COM ARTS 455	French Film	ENGL 453	Topic in British Literature and Culture since 1900
COM ARTS 458	Global Media Cultures	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
COM ARTS/ ITALIAN 460	Italian Film	ENGL/ THEATRE 575	British Drama, 1914 to Present
COM ARTS 470	Contemporary Political Discourse	ENVIR ST/ILS 126	Principles of Environmental Science
COM ARTS 557	Contemporary Media Industries	ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
COM ARTS 577	Dynamics of Online Relationships	ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts
		ENVIR ST/A A E/ ECON 343	Environmental Economics
		ENVIR ST 349	Climate Change Governance

ENVIR ST/ LAND ARC 361	Wetlands Ecology	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
ENVIR ST/ BSE 367	Renewable Energy Systems	GEN&WS 420	Women in Cross-Societal Perspective
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)	GEN&WS 424	Women's International Human Rights
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	GEN&WS/ URB R PL 644	International Development and Gender
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People, Environment)	GEOG 101	Introduction to Human Geography
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	GEOG/ ENVIR ST 120	Introduction to the Earth System
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	GEOG/ ENVIR ST 127	Physical Systems of the Environment
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	GEOG/ ENVIR ST 139	Global Environmental Issues
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	GEOG 301	Revolutions and Social Change
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	GEOG 302	Economic Geography: Locational Behavior
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	GEOG/ URB R PL 305	Introduction to the City
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	GEOG 307	International Migration, Health, and Human Rights
F&W ECOL 318	Principles of Wildlife Ecology	GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity
F&W ECOL 410	Principles of Silviculture	GEOG 318	Introduction to Geopolitics
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
FOLKLORE 510	Folklore Theory	GEOG/ BOTANY 338	Environmental Biogeography
FRENCH 211	French Literary and Interdisciplinary Studies	GEOG/ ENVIR ST 339	Environmental Conservation
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	GEOG 340	World Regions in Global Context
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	GEOG 349	Europe
FRENCH 322	Modern French and Francophone Literature	GEOG 355	Africa, South of the Sahara
FRENCH 325	Visual Culture in French/Francophone Studies	GEOG 358	Human Geography of Southeast Asia
FRENCH 348	Modernity Studies	GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
FRENCH 449	Francophone Modernity Studies	GEOG/ENVIR ST/ HISTORY 460	American Environmental History
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	GEOG/ URB R PL 506	Historical Geography of European Urbanization
FRENCH 465	French/Francophone Film	GEOG 510	Economic Geography
FRENCH 467	Aspects of Contemporary French Literature	GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
FRENCH 472	French/Francophone Literature and Women	GEOG/ ENVIR ST 537	Culture and Environment
GEN&WS/ ENGL 250	Women in Literature	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
		GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
		GEOSCI/ ATM OCN 105	Survey of Oceanography



GEOSCI/ ENVIR ST 106	Environmental Geology	HISTORY 450	Making of Modern South Asia
GEOSCI/ ENVIR ST 411	Energy Resources	HISTORY/ ASIAN 454	Samurai: History and Image
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	HISTORY 533	Multi-Racial Societies in Latin America
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)
GERMAN 325	Topics in Dutch Literature	HISTORY 607	The American Impact Abroad: The Historical Dimension
GERMAN 362	Topics in German Literature	HIST SCI/ ENVIR ST 353	History of Ecology
GERMAN 372	Topics in German Culture	HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II
GERMAN 411	Kultur des 20. und 21. Jahrhunderts	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	HORT 370	World Vegetable Crops
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)
GERMAN/ COM ARTS 655	German Film	INTL BUS 200	International Business
HISTORY 201	The Historian's Craft (various)	INTL BUS/ GEN BUS 320	Intercultural Communication in Business
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	INTL BUS 365	Contemporary Topics (International Perspectives)
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)	INTL BUS/A A E/ ECON 462	Latin American Economic Development
HISTORY 241	Latin America from 1780 to 1940	INTL ST/ AFRICAN 302	Arabic Literature and Cinema
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	INTL ST/ GEOG 315	Universal Basic Income: The Politics Behind a Global Movement
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America
HISTORY/ ASIAN 319	The Vietnam Wars	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	INTL ST/ ED POL 335	Globalization and Education
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	INTL ST/ A A E 373	Globalization, Poverty and Development
HISTORY 357	The Second World War	INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire
HISTORY 403	Immigration and Assimilation in American History	INTL ST 401	Topics in Global Security
HISTORY 418	History of Russia	INTL ST 402	Topics in Politics and Policy in the Global Economy
HISTORY 419	History of Soviet Russia	INTL ST 403	Topics in Culture in the Age of Globalization
HISTORY 420	Russian Social and Intellectual History	INTL ST/ POLI SCI 423	Social Mobilization in Latin America
HISTORY/ LEGAL ST 426	The History of Punishment		
HISTORY 434	American Foreign Relations, 1901 to the Present		
HISTORY 441	Revolution and Conflict in Modern Latin America		

INTL ST/ POLI SCI 431	Contentious Politics	L I S 201	The Information Society
INTL ST/ POLI SCI 434	The Politics of Human Rights	L I S 661	Information Ethics and Policy
INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	LEGAL ST 409	Human Rights in Law and Society
INTL ST 501	Study Abroad Topics in Global Security	LEGAL ST/ L I S 663	Introduction to Cyberlaw
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	LINGUIS/ ANTHRO 430	Language and Culture
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I
INTL ST 504	Study Abroad Topics in Global Environment	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II
INTL ST 520	Study Abroad Topics in International Studies	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	LITTRANS 220	Chekhov: The Drama of Modern Life
INTL ST 601	Topics in Global Security	LITTRANS 222	Dostoevsky in Translation
INTL ST 602	Topics in Politics and Policy in the Global Economy	LITTRANS 224	Tolstoy in Translation
INTL ST 603	Topics in Culture in the Age of Globalization	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
INTL ST 620	Topics in International Studies	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
INTL ST 622	Washington DC Sem in International Affairs Seminar	LITTRANS 240	Soviet Literature in Translation
ITALIAN 230	Modern Italian Culture	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)
ITALIAN 322	Studies in Italian Literature and Culture II	LITTRANS 254	In Translation: Lit of Modern Italy- Existentialism, Fascism, Resistance
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	LITTRANS/ GEN&WS 270	German Women Writers in Translation
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century
ITALIAN/ COM ARTS 460	Italian Film	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)
JEWISH/ POLI SCI 341	Israeli Politics and Society	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	LITTRANS 331	In Translation: Scandinavian Topics in Depth
JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	LITTRANS 373	Topics in Japanese Literature (Evangelion)
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	LITTRANS 455	Modern Serbian and Croatian Literature in Translation
JOURN 618	Mass Communication and Political Behavior	LITTRANS 473	Polish Literature (in Translation) since 1863
JOURN 620	International Communication	MARKETNG/ INTL BUS 420	Global Marketing Strategy
JOURN 621	Mass Communication in Developing Nations	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)

MUSIC/ FOLKLORE 402	Musical Cultures of the World	POLI SCI 460	Topics in Political Philosophy ((Economic Inequality))
MUSIC 416	Survey of Music in the Twentieth Century	POLI SCI 534	Socialism and Transitions to the Market
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	POLI SCI 538	Politics and Policies in the European Union
PHILOS/ ENVIR ST 441	Environmental Ethics	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)
PHILOS 555	Political Philosophy	POLI SCI 652	The Politics of Development
PHILOS 557	Issues in Social Philosophy	POLI SCI 659	Politics and Society: Contemporary Eastern Europe
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)
POLI SCI 320	Governments and Politics of the Middle East and North Africa	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
POLI SCI 321	Latin-American Politics	PORTUG/ GEN&WS 450	Brazilian Women Writers
POLI SCI 322	Politics of Southeast Asia	PORTUG 467	Survey of Portuguese Literature since 1825
POLI SCI 323	Islam and World Politics	PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)
POLI SCI 324	Chinese Politics	PSYCH 428	Introduction to Cultural Psychology
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	RELIG ST/ ANTHRO 343	Anthropology of Religion
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	SCAND ST 251	Readings in Norwegian Literature
POLI SCI 328	Politics of East and Southeast Asia	SCAND ST 261	Readings in Swedish Literature
POLI SCI 329	African Politics	SCAND ST 271	Readings in Danish Literature
POLI SCI 332	German Politics	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
POLI SCI 334	Russian Politics	SCAND ST 427	Contemporary Scandinavian Literature
POLI SCI 340	The European Union: Politics and Political Economy	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
POLI SCI/ JEWISH 341	Israeli Politics and Society	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
POLI SCI 346	China in World Politics	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
POLI SCI 347	Terrorism	SCAND ST 476	Scandinavian Life and Civilization II
POLI SCI 350	International Political Economy	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
POLI SCI 354	International Institutions and World Order	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
POLI SCI 356	Principles of International Law	SLAVIC 242	Literatures and Cultures of Eastern Europe
POLI SCI 359	American Foreign Policy	SLAVIC 321	Fourth Year Russian I
POLI SCI 363	Literature and Politics	SLAVIC 322	Fourth Year Russian II
POLI SCI 377	Nuclear Weapons and World Politics	SLAVIC 405	Women in Russian Literature
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	SLAVIC 420	Chekhov
POLI SCI 400	Topics in Political Science (Middle East Politics)	SLAVIC 434	Contemporary Russian Culture
POLI SCI 401	Selected Topics in Political Science (Global Governance)	SLAVIC 440	Soviet Literature
POLI SCI 421	The Challenge of Democratization	SLAVIC 449	History of Serbo-Croatian Literature
POLI SCI/ INTL ST 431	Contentious Politics	SLAVIC 454	Modern Serbo-Croatian Literature
POLI SCI 432	Comparative Legal Institutions		
POLI SCI/ INTL ST 434	The Politics of Human Rights		
POLI SCI 438	Comparative Political Culture		

SLAVIC 472	History of Polish Literature after 1863
SOC 170	Population Problems
SOC 225	Contemporary Chinese Society
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
SOC/ C&E SOC 341	Labor in Global Food Systems
SOC 496	Topics in Sociology (Intercultural Dialogues)
SOC/ C&E SOC 541	Environmental Stewardship and Social Justice
SOC 626	Social Movements
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
SOC 632	Sociology of Organizations
SOC 633	Social Stratification
SOC 640	Sociology of the Family
SOC 646	Race and Ethnic Relations
SOC/ ED POL 648	Sociology of Education
SOC/ C&E SOC 652	Sociology of Economic Institutions
SOC/ECON 663	Population and Society
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
SPANISH/ LACIS 285	Race and Culture in the Americas
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SPANISH 324	Survey of Modern Spanish Literature
SPANISH 326	Survey of Spanish American Literature
SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 468	Topics in Hispanic Culture (Documentary Film)
SPANISH 479	Latin American Literature and Human Rights
THEATRE 327	History of Costume for the Stage
THEATRE 351	Fundamentals of Asian Stage Discipline

THEATRE 424	Contemporary World Theatre and Dramatic Literature
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
THEATRE 526	The Theatres of China and Japan
THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology

## INTERNATIONAL STUDIES: GLOBAL SECURITY

### REQUIREMENTS

### GLOBAL SECURITY OPTION

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Global Security Option:

### GLOBAL SECURITY OPTION CORE

Code	Title	Credits
<b>Complete two courses:</b>		
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	

C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
GEOG 307	International Migration, Health, and Human Rights
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HISTORY/ LEGAL ST 426	The History of Punishment
HISTORY 434	American Foreign Relations, 1901 to the Present
INTL ST 401	Topics in Global Security
INTL ST/ POLI SCI 431	Contentious Politics
INTL ST 601	Topics in Global Security
PHILOS 555	Political Philosophy
PHILOS 557	Issues in Social Philosophy
POLI SCI 343	Theories of International Security
POLI SCI 354	International Institutions and World Order
POLI SCI 359	American Foreign Policy
POLI SCI 377	Nuclear Weapons and World Politics
POLI SCI 421	The Challenge of Democratization
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
SOC 496	Topics in Sociology (Asylum and Refugees)
SOC 626	Social Movements

## GLOBAL SECURITY OPTION ISSUES

Code	Title	Credits
<b>15 credits from:</b>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 477	Agricultural and Economic Development in Africa	
ANTHRO 330	Topics in Ethnology	
ANTHRO 365	Medical Anthropology	
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ASIAN 300	Topics in Asian Studies (Gender and Sexuality)	
ASIAN/ HISTORY 363	China and World War II in Asia	
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	

ASIAN 630	Proseminar: Studies in Cultures of Asia
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)
COM ARTS 371	Communication and Conflict Resolution
COM ARTS 372	Rhetoric of Campaigns and Revolutions
COM ARTS 470	Contemporary Political Discourse
COM ARTS 573	Rhetoric of Globalization and Transnationalism
ECON 467	International Industrial Organizations
ED POL 150	Education and Public Policy (Human Rights & Education)
ED POL 220	Human Rights and Education
ED POL 240	Comparative Education
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)
GEN&WS 424	Women's International Human Rights
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG 307	International Migration, Health, and Human Rights
GEOG 318	Introduction to Geopolitics
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 349	Europe
GEOG 355	Africa, South of the Sahara
GEOG 358	Human Geography of Southeast Asia

GEOG 475	Topics in Geography (International Migration, Health, and Human Rights)	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
GEOG/ URB R PL 506	Historical Geography of European Urbanization	INTL BUS/A A E/ ECON 462	Latin American Economic Development
GEOSCI/ ENVIR ST 411	Energy Resources	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
HISTORY 201	The Historian's Craft (History of Humanitarianism)	INTL ST/ ED POL 335	Globalization and Education
HISTORY 201	The Historian's Craft (WWII Eastern Europe)	INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire
HISTORY 201	The Historian's Craft (Dems & Dictators in Spain & Italy)	INTL ST 401	Topics in Global Security
HISTORY 201	The Historian's Craft (WW II Eastern Front)	INTL ST/ POLI SCI 431	Contentious Politics
HISTORY 201	The Historian's Craft (Shanghai)	INTL ST/ POLI SCI 434	The Politics of Human Rights
HISTORY 201	The Historian's Craft (End of Empire: Occupation and Post-War)	INTL ST 501	Study Abroad Topics in Global Security
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	INTL ST 601	Topics in Global Security
HISTORY 223	Explorations in European History (H) (War, Religion, & Race)	INTL ST 622	Washington DC Sem in International Affairs Seminar
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
HISTORY/ ASIAN 319	The Vietnam Wars	JOURN 618	Mass Communication and Political Behavior
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	JOURN 621	Mass Communication in Developing Nations
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	LEGAL ST 409	Human Rights in Law and Society
HISTORY 357	The Second World War	LEGAL ST/ L I S 663	Introduction to Cyberlaw
HISTORY 418	History of Russia	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust in Poland)
HISTORY 419	History of Soviet Russia	LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants & Refugees)
HISTORY/ LEGAL ST 426	The History of Punishment	LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust, Memory in Dutch Literature)
HISTORY 434	American Foreign Relations, 1901 to the Present	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)
HISTORY 441	Revolution and Conflict in Modern Latin America	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
HISTORY 450	Making of Modern South Asia	PHILOS/ ENVIR ST 441	Environmental Ethics
HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	PHILOS 555	Political Philosophy
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	PHILOS 557	Issues in Social Philosophy
HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)	POLI SCI 323	Islam and World Politics
HISTORY 607	The American Impact Abroad: The Historical Dimension	POLI SCI 324	Chinese Politics
HIST SCI/ ENVIR ST 353	History of Ecology	POLI SCI 334	Russian Politics
HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II		

POLI SCI 340	The European Union: Politics and Political Economy
POLI SCI 343	Theories of International Security
POLI SCI 345	Conflict Resolution
POLI SCI 346	China in World Politics
POLI SCI 347	Terrorism
POLI SCI 348	Analysis of International Relations
POLI SCI 354	International Institutions and World Order
POLI SCI 356	Principles of International Law
POLI SCI 359	American Foreign Policy
POLI SCI 377	Nuclear Weapons and World Politics
POLI SCI 401	Selected Topics in Political Science (Global Governance)
POLI SCI 401	Selected Topics in Political Science (Nationalism & Ethnic Conflict)
POLI SCI 401	Selected Topics in Political Science (Global Access to Justice)
POLI SCI 401	Selected Topics in Political Science (Authoritarianism)
POLI SCI 421	The Challenge of Democratization
POLI SCI 432	Comparative Legal Institutions
POLI SCI 438	Comparative Political Culture
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
POLI SCI 455	African International Relations
POLI SCI 529	Arab-Israeli Conflict
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
SOC 225	Contemporary Chinese Society
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
SOC 626	Social Movements
SOC/ECON 663	Population and Society
SPANISH 460	Literatura Hispanoamericana (Human Rights: Argentina/Chile)
SPANISH 468	Topics in Hispanic Culture (Topic: Human Rights Culture in Argentina and Chile)
SPANISH 479	Latin American Literature and Human Rights

## ELECTIVES

Elective credits to attain the required 35 total credits in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Choose from:

Code	Title	Credits
A A E/ ENVIR ST 244	The Environment and the Global Economy	

A A E 319	The International Agricultural Economy
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition
A A E/ECON 421	Economic Decision Analysis
A A E/ECON 473	Economic Growth and Development in Southeast Asia
A A E/ECON 474	Economic Problems of Developing Areas
A A E/ECON 477	Agricultural and Economic Development in Africa
A A E/ECON/ F&W ECOL 531	Natural Resource Economics
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets
AFRICAN 230	Introduction to Yoruba Life and Culture
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
AFRICAN 300	African Literature in Translation
AFRICAN 300	African Literature in Translation
AFRICAN 300	African Literature in Translation (African Coming of Age Stories)
AFRICAN 303	African Literature and Visual Culture
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture
AFRICAN 403	Theories of African Cultural Studies
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)
AFRICAN 412	Contemporary African Fiction
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama
AFRICAN/ FRENCH 440	African/Francophone Film
AFRICAN/ PORTUG 451	Lusophone African Literature
AFRICAN 453	Modern African Literature in English
AFRICAN 500	Language and Society in Africa
AFRICAN 609	Advanced Topics in Global Black Music Studies
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER/ ART HIST 242	Introduction to Afro-American Art
AFROAMER/ ANTHRO/ C&E SOC/ GEOG/ HISTORY/ LACIS/ POLI SCI/ SOC/ SPANISH 260	Latin America: An Introduction

AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	ASIAN 357	Japanese Ghost Stories
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	ASIAN 355	Modern Japanese Literature
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	ASIAN 361	Love and Politics: The Tale of Genji
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	ASIAN 371	Topics in Chinese Literature
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	ASIAN 374	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	ASIAN 375	Survey of Chinese Film
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	ASIAN 376	Manga
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	ASIAN 378	Anime
ANTHRO 322	The Origins of Civilization	ASIAN/ ART HIST 379	Cities of Asia
ANTHRO 330	Topics in Ethnology	ASIAN 403	Southeast Asian Literature
ANTHRO 339	Archaeology of Warfare and Human Nature	ASIAN/ ART HIST 428	Visual Cultures of India
ANTHRO 350	Political Anthropology	ASIAN 433	Topics in East Asian Visual Cultures
ANTHRO 357	Introduction to the Anthropology of Japan	ASIAN/ HISTORY 458	History of Southeast Asia Since 1800
ANTHRO 365	Medical Anthropology	ASIAN 563	Readings in Modern Japanese Literature
ANTHRO 490	Undergraduate Seminar	ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces
ANTHRO 606	Ethnicity, Nations, and Nationalism	ASIAN 630	Proseminar: Studies in Cultures of Asia
ART HIST 350	19th Century Painting in Europe	ASIAN 630	Proseminar: Studies in Cultures of Asia
ART HIST 351	20th Century Art in Europe	ASIAN 655	Ethnography in Asia
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	ASIAN AM/ ENGL 270	A Survey of Asian American Literature
ART HIST 372	Arts of Japan	ATM OCN 100	Weather and Climate
ART HIST/ RELIG ST 373	Great Cities of Islam	ATM OCN 101	Weather and Climate
ART HIST 411	Topics in Asian Art	ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
ART HIST 454	Art in Germany, 1900-1945	ATM OCN/ ENVIR ST 520	Bioclimatology
ART HIST 479	Art and History in Africa	ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change
ART HIST 510	Proseminar in Islamic Art and Architecture	ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
ASIAN 253	Japanese Popular Culture	BOTANY 240	Plants and Humans
ASIAN 253	Japanese Popular Culture	C&E SOC/ SOC 245	Technology and Society
ASIAN 300	Topics in Asian Studies (Indian Traditions Modern Age)	C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
ASIAN 301	Social Studies Topics in East Asian Studies (Two Koreas)	C&E SOC/SOC/ URB R PL 617	Community Development
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
ASIAN 311	Modern Indian Literatures	COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)
ASIAN 352	Survey of Modern Chinese Literature	COM ARTS 346	Critical Internet Studies
		COM ARTS 350	Introduction to Film
		COM ARTS 352	Film History to 1960



COM ARTS 371	Communication and Conflict Resolution	ENGL 453	Topic in British Literature and Culture since 1900
COM ARTS 372	Rhetoric of Campaigns and Revolutions	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
COM ARTS 372	Rhetoric of Campaigns and Revolutions	ENGL/ ENVIR ST 533	Topic in Literature and the Environment
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	ENGL/ THEATRE 575	British Drama, 1914 to Present
COM ARTS 455	French Film	ENVIR ST/ILS 126	Principles of Environmental Science
COM ARTS 458	Global Media Cultures	ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
COM ARTS/ ITALIAN 460	Italian Film	ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts
COM ARTS 470	Contemporary Political Discourse	ENVIR ST/A A E/ ECON 343	Environmental Economics
COM ARTS 557	Contemporary Media Industries	ENVIR ST 349	Climate Change Governance
COM ARTS 577	Dynamics of Online Relationships	ENVIR ST/ LAND ARC 361	Wetlands Ecology
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	ENVIR ST/ BSE 367	Renewable Energy Systems
CURRIC 292	Globalizing Education	ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)
CURRIC 366	Internationalizing Educational Knowledge	ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Conserving Biodiversity)
DS/ LAND ARC 639	Culture and Built Environment	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)
ECON 330	Money and Banking	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)
ECON 364	Survey of International Economics	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
ECON 370	Economics of Poverty and Inequality	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ECON 390	Contemporary Economic Issues	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health
ECON 461	International Macroeconomics	ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ECON 464	International Trade	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ECON/ HISTORY 466	The American Economy Since 1865	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects
ECON 467	International Industrial Organizations	ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
ECON 475	Economics of Growth	F&W ECOL 318	Principles of Wildlife Ecology
ED POL 150	Education and Public Policy (Human Rights & Education)	F&W ECOL 375	Special Topics
ED POL 240	Comparative Education	F&W ECOL 375	Special Topics
ED POL/ INTL ST 335	Globalization and Education	F&W ECOL 410	Principles of Silviculture
ED POL 420	Education in East Asia	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions
ED POL 423	Education for Global Change		
ED POL/ ANTHRO 570	Anthropology and Education		
ED POL 595	Language Politics and Education		
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK		
ED POL 675	Introduction to Comparative and International Education		
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies		
ENGL 174	Literature and Social Justice		
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings		
ENGL 352	Modernist Poetry		
ENGL 353	British Literature since 1900		

FOLKLORE 510	Folklore Theory	GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
FRENCH 211	French Literary and Interdisciplinary Studies	GEOG/ BOTANY 338	Environmental Biogeography
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	GEOG/ ENVIR ST 339	Environmental Conservation
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	GEOG 340	World Regions in Global Context
FRENCH 322	Modern French and Francophone Literature	GEOG 349	Europe
FRENCH 325	Visual Culture in French/ Francophone Studies	GEOG 355	Africa, South of the Sahara
FRENCH 348	Modernity Studies	GEOG 358	Human Geography of Southeast Asia
FRENCH 449	Francophone Modernity Studies	GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	GEOG/ENVIR ST/ HISTORY 460	American Environmental History
FRENCH 465	French/Francophone Film	GEOG 475	Topics in Geography
FRENCH 467	Aspects of Contemporary French Literature	GEOG/ URB R PL 506	Historical Geography of European Urbanization
FRENCH 472	French/Francophone Literature and Women	GEOG 510	Economic Geography
GEN&WS/ ENGL 250	Women in Literature	GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	GEOG/ ENVIR ST 537	Culture and Environment
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	GEOSCI/ ATM OCN 105	Survey of Oceanography
GEN&WS 420	Women in Cross-Societal Perspective	GEOSCI/ ENVIR ST 106	Environmental Geology
GEN&WS 424	Women's International Human Rights	GEOSCI/ ENVIR ST 411	Energy Resources
GEN&WS/ URB R PL 644	International Development and Gender	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)
GEOG 101	Introduction to Human Geography	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)
GEOG/ ENVIR ST 120	Introduction to the Earth System	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)
GEOG/ ENVIR ST 127	Physical Systems of the Environment	GERMAN 278	Topics in German Culture (Culture in 20th Century)
GEOG/ ENVIR ST 139	Global Environmental Issues	GERMAN 305	Literatur des 20. und 21. Jahrhunderts
GEOG 301	Revolutions and Social Change	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)
GEOG/ URB R PL 305	Introduction to the City	GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	GERMAN 362	Topics in German Literature (Musik)
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	GERMAN 362	Topics in German Literature (Migration in deutscher)
GEOG 318	Introduction to Geopolitics	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)
		GERMAN 372	Topics in German Culture (Oesterreich)

GERMAN 372	Topics in German Culture (Deutscher Film)	HISTORY 434	American Foreign Relations, 1901 to the Present
GERMAN 372	Topics in German Culture (Theater auf Deutsch)	HISTORY 441	Revolution and Conflict in Modern Latin America
GERMAN 372	Topics in German Culture (Green Germany)	HISTORY 450	Making of Modern South Asia
GERMAN 372	Topics in German Culture (China-German Point of View)	HISTORY/ ASIAN 454	Samurai: History and Image
GERMAN 411	Kultur des 20. und 21. Jahrhunderts	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	HISTORY 533	Multi-Racial Societies in Latin America
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	HISTORY 600	Advanced Seminar in History (Global Religious Revivals)
GERMAN/ COM ARTS 655	German Film	HISTORY 607	The American Impact Abroad: The Historical Dimension
HISTORY 201	The Historian's Craft (various)	HIST SCI/ ENVIR ST 353	History of Ecology
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	HORT 370	World Vegetable Crops
HISTORY 223	Explorations in European History (H) (Cold War in European Culture)	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)	INTL BUS 200	International Business
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)	INTL BUS/ GEN BUS 320	Intercultural Communication in Business
HISTORY 241	Latin America from 1780 to 1940	INTL BUS 365	Contemporary Topics (International Perspectives)
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	INTL BUS/A A E/ ECON 462	Latin American Economic Development
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	INTL ST/ AFRICAN 302	Arabic Literature and Cinema
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
HISTORY/ ASIAN 319	The Vietnam Wars	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	INTL ST/ ED POL 335	Globalization and Education
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	INTL ST/ A A E 373	Globalization, Poverty and Development
HISTORY 357	The Second World War	INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	INTL ST 401	Topics in Global Security
HISTORY 403	Immigration and Assimilation in American History	INTL ST 402	Topics in Politics and Policy in the Global Economy
HISTORY 418	History of Russia	INTL ST 403	Topics in Culture in the Age of Globalization
HISTORY 419	History of Soviet Russia	INTL ST/ POLI SCI 423	Social Mobilization in Latin America
HISTORY 420	Russian Social and Intellectual History	INTL ST/ POLI SCI 431	Contentious Politics
HISTORY/ LEGAL ST 426	The History of Punishment		

INTL ST/ POLI SCI 434	The Politics of Human Rights	JOURN 621	Mass Communication in Developing Nations
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	L I S 201	The Information Society
INTL ST 501	Study Abroad Topics in Global Security	L I S 661	Information Ethics and Policy
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	LEGAL ST 409	Human Rights in Law and Society
INTL ST 504	Study Abroad Topics in Global Environment	LEGAL ST/ L I S 663	Introduction to Cyberlaw
INTL ST 520	Study Abroad Topics in International Studies	LINGUIS/ ANTHRO 430	Language and Culture
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I
INTL ST 601	Topics in Global Security	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II
INTL ST 602	Topics in Politics and Policy in the Global Economy	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
INTL ST 603	Topics in Culture in the Age of Globalization	LITTRANS 220	Chekhov: The Drama of Modern Life
INTL ST 620	Topics in International Studies	LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
INTL ST 622	Washington DC Sem in International Affairs Seminar	LITTRANS 222	Dostoevsky in Translation
ITALIAN 230	Modern Italian Culture	LITTRANS 224	Tolstoy in Translation
ITALIAN 322	Studies in Italian Literature and Culture II	LITTRANS 224	Tolstoy in Translation
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
ITALIAN 450	Special Topics in Italian Literature (From Text to Stage)	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	LITTRANS 240	Soviet Literature in Translation
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)
ITALIAN/ COM ARTS 460	Italian Film	LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)
JEWISH/ POLI SCI 341	Israeli Politics and Society	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	LITTRANS/ GEN&WS 270	German Women Writers in Translation
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century
JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education	LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants and Refugees)
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)
JOURN 618	Mass Communication and Political Behavior	LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
JOURN 620	International Communication	LITTRANS 331	In Translation: Scandinavian Topics in Depth
		LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen

LITTRANS 368	Modern Japanese Fiction	POLI SCI 400	Topics in Political Science (Middle East Politics)
LITTRANS 373	Topics in Japanese Literature (Evangelion)	POLI SCI 401	Selected Topics in Political Science (Global Governance)
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	POLI SCI/ INTL ST 431	Contentious Politics
LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	POLI SCI 432	Comparative Legal Institutions
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	POLI SCI/ INTL ST 434	The Politics of Human Rights
LITTRANS 473	Polish Literature (in Translation) since 1863	POLI SCI 438	Comparative Political Culture
MARKETNG/ INTL BUS 420	Global Marketing Strategy	POLI SCI/ INTL ST 439	The Comparative Study of Genocide
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	POLI SCI 455	African International Relations
MUSIC/ FOLKLORE 402	Musical Cultures of the World	POLI SCI 529	Arab-Israeli Conflict
MUSIC 416	Survey of Music in the Twentieth Century	POLI SCI 538	Politics and Policies in the European Union
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)
PHILOS/ ENVIR ST 441	Environmental Ethics	POLI SCI 652	The Politics of Development
PHILOS 555	Political Philosophy	POLI SCI 659	Politics and Society: Contemporary Eastern Europe
PHILOS 557	Issues in Social Philosophy	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
POLI SCI 320	Governments and Politics of the Middle East and North Africa	PORTUG/ GEN&WS 450	Brazilian Women Writers
POLI SCI 323	Islam and World Politics	PORTUG 467	Survey of Portuguese Literature since 1825
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	PORTUG 640	Topics in Luso-Brazilian Literature
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	PSYCH 428	Introduction to Cultural Psychology
POLI SCI 328	Politics of East and Southeast Asia	RELIG ST/ ANTHRO 343	Anthropology of Religion
POLI SCI 332	German Politics	RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)
POLI SCI 334	Russian Politics	RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)
POLI SCI 340	The European Union: Politics and Political Economy	SCAND ST 251	Readings in Norwegian Literature
POLI SCI/ JEWISH 341	Israeli Politics and Society	SCAND ST 261	Readings in Swedish Literature
POLI SCI 346	China in World Politics	SCAND ST 271	Readings in Danish Literature
POLI SCI 347	Terrorism	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
POLI SCI 348	Analysis of International Relations	SCAND ST 427	Contemporary Scandinavian Literature
POLI SCI 350	International Political Economy	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
POLI SCI 354	International Institutions and World Order	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
POLI SCI 356	Principles of International Law	SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)
POLI SCI 359	American Foreign Policy	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
POLI SCI 363	Literature and Politics	SCAND ST 476	Scandinavian Life and Civilization II
POLI SCI 377	Nuclear Weapons and World Politics	SCAND ST 520	Special Topics (Humor and Noir)
POLI SCI 390	Study Abroad Topics in Political Science: International Relations		

SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	SPANISH/ INTL BUS 329	Spanish for Business
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	SPANISH 361	Spanish Civilization
SLAVIC 242	Literatures and Cultures of Eastern Europe	SPANISH 363	Spanish American Civilization
SLAVIC 321	Fourth Year Russian I	SPANISH 453	Literature of the Twentieth Century
SLAVIC 322	Fourth Year Russian II	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SLAVIC 405	Women in Russian Literature	SPANISH 461	The Spanish American Short Story
SLAVIC 420	Chekhov	SPANISH 462	Spanish American Theater and Drama
SLAVIC 433	History of Russian Culture	SPANISH 464	Spanish American Poetry and Essay
SLAVIC 434	Contemporary Russian Culture	SPANISH 468	Topics in Hispanic Culture (Documentary Film)
SLAVIC 440	Soviet Literature	SPANISH 468	Topics in Hispanic Culture (Minds and Machines)
SLAVIC 449	History of Serbo-Croatian Literature	SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)
SLAVIC 454	Modern Serbo-Croatian Literature	SPANISH 477	Latin American Rock Cultures
SLAVIC 472	History of Polish Literature after 1863	SPANISH/ CHICLA 478	Border and Race Studies in Latin America
SOC 170	Population Problems	THEATRE 327	History of Costume for the Stage
SOC 225	Contemporary Chinese Society	THEATRE 351	Fundamentals of Asian Stage Discipline
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	THEATRE 424	Contemporary World Theatre and Dramatic Literature
SOC/ C&E SOC 341	Labor in Global Food Systems	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
SOC 496	Topics in Sociology (Intercultural Dialogues)	THEATRE 526	The Theatres of China and Japan
SOC 496	Topics in Sociology (The Soviet Jewish Experience)	THEATRE/ SLAVIC 532	History of Russian Theatre
SOC/ C&E SOC 541	Environmental Stewardship and Social Justice	THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
SOC 626	Social Movements	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World	ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
SOC 632	Sociology of Organizations	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
SOC 633	Social Stratification	ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
SOC 640	Sociology of the Family	ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
SOC 646	Race and Ethnic Relations	ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
SOC/ ED POL 648	Sociology of Education	ZOOLOGY 611	Comparative and Evolutionary Physiology
SOC/ C&E SOC 652	Sociology of Economic Institutions	ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
SOC/ECON 663	Population and Society		
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use		
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource		
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality		
SPANISH/ LACIS 285	Race and Culture in the Americas		
SPANISH 324	Survey of Modern Spanish Literature		
SPANISH 326	Survey of Spanish American Literature		

# INTERNATIONAL STUDIES: POLITICS AND POLICY IN THE GLOBAL ECONOMY

## REQUIREMENTS

### POLITICS AND POLICY IN THE GLOBAL ECONOMY OPTION REQUIREMENTS

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Politics and Policy in the Global Economy Option:

### POLITICS AND POLICY IN THE GLOBAL ECONOMY CORE

Code	Title	Credits
<b>Complete two:</b>		
A A E 319	The International Agricultural Economy	6
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
ECON 364	Survey of International Economics	
ECON 464	International Trade	
ECON 475	Economics of Growth	
GEN&WS/ URB R PL 644	International Development and Gender	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	
GEOG 510	Economic Geography	
INTL ST/ GEOG 311	The Global Game: Soccer, Politics, and Identity	
INTL ST/ A A E 373	Globalization, Poverty and Development	
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	
INTL ST 402	Topics in Politics and Policy in the Global Economy	
INTL ST 602	Topics in Politics and Policy in the Global Economy	

POLI SCI 538	Politics and Policies in the European Union
POLI SCI 652	The Politics of Development
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
SOC/ C&E SOC 652	Sociology of Economic Institutions
URB R PL/ GEN&WS 644	International Development and Gender

### POLITICS AND POLICY IN THE GLOBAL ECONOMY ISSUES

Code	Title	Credits
<b>15 credits from:</b>		<b>15</b>
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
ANTHRO 330	Topics in Ethnology (Culture/Health in Africa)	
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/SOC/ URB R PL 617	Community Development	
CHICLA/ POLI SCI 302	Mexican-American Politics	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 470	Contemporary Political Discourse	
CURRIC 292	Globalizing Education	
CURRIC 366	Internationalizing Educational Knowledge	
ECON 330	Money and Banking	

ECON 364	Survey of International Economics	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective
ECON 370	Economics of Poverty and Inequality	GEN&WS/ URB R PL 644	International Development and Gender
ECON 370	Economics of Poverty and Inequality	GEOG/ ENVIR ST 139	Global Environmental Issues
ECON 390	Contemporary Economic Issues (Poverty, Inequality, & Public Policy)	GEOG 302	Economic Geography: Locational Behavior
ECON 390	Contemporary Economic Issues (The Chinese Economy)	GEOG 307	International Migration, Health, and Human Rights
ECON 461	International Macroeconomics	GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement
ECON 464	International Trade	GEOG 318	Introduction to Geopolitics
ECON 467	International Industrial Organizations	GEOG/ ENVIR ST 339	Environmental Conservation
ECON 475	Economics of Growth	GEOG 340	World Regions in Global Context
ECON 666	Issues in International Finance	GEOG 349	Europe
ED POL 150	Education and Public Policy	GEOG 355	Africa, South of the Sahara
ED POL 220	Human Rights and Education	GEOG 358	Human Geography of Southeast Asia
ED POL 240	Comparative Education	GEOG 475	Topics in Geography (International Migration & Health)
ED POL/ INTL ST 335	Globalization and Education	GEOG/ URB R PL 506	Historical Geography of European Urbanization
ED POL 420	Education in East Asia	GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
ED POL 423	Education for Global Change	GEOSCI/ ENVIR ST 411	Energy Resources
ED POL 595	Language Politics and Education	HISTORY 201	The Historian's Craft (Shanghai Life and Crime)
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	HISTORY 201	The Historian's Craft (US-Latin Amer Relations)
ED POL 675	Introduction to Comparative and International Education	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	HISTORY 419	History of Soviet Russia
ENVIR ST 349	Climate Change Governance	HISTORY 441	Revolution and Conflict in Modern Latin America
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainable Science)	HISTORY 450	Making of Modern South Asia
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability, Science, Technology, and Policy)	HISTORY 607	The American Impact Abroad: The Historical Dimension
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Poli Econ & Liberal)
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	INTL BUS 200	International Business
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	INTL BUS/ GEN BUS 320	Intercultural Communication in Business
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	INTL BUS 365	Contemporary Topics (International Perspectives)
F&W ECOL 375	Special Topics	INTL BUS/ M H R 403	Global Issues in Management
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	INTL BUS/A A E/ ECON 462	Latin American Economic Development
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)		



INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	POLI SCI 400	Topics in Political Science (Middle East Politics)
INTL ST/ ED POL 335	Globalization and Education	POLI SCI 401	Selected Topics in Political Science (Global Governance)
INTL ST/ A A E 373	Globalization, Poverty and Development	POLI SCI 401	Selected Topics in Political Science
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	POLI SCI 401	Selected Topics in Political Science (Political Economy)
INTL ST 402	Topics in Politics and Policy in the Global Economy	POLI SCI 421	The Challenge of Democratization
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	POLI SCI 432	Comparative Legal Institutions
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	POLI SCI/ INTL ST 434	The Politics of Human Rights
INTL ST 602	Topics in Politics and Policy in the Global Economy	POLI SCI 438	Comparative Political Culture
INTL ST 622	Washington DC Sem in International Affairs Seminar	POLI SCI 460	Topics in Political Philosophy (Economic Inequality)
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	POLI SCI 460	Topics in Political Philosophy (Economy, Politics, Society)
JOURN 618	Mass Communication and Political Behavior	POLI SCI 534	Socialism and Transitions to the Market
JOURN 620	International Communication	POLI SCI 652	The Politics of Development
JOURN 621	Mass Communication in Developing Nations	POLI SCI 659	Politics and Society: Contemporary Eastern Europe
L I S 661	Information Ethics and Policy	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Pol Sci: CmpartvPo)
LEGAL ST/ L I S 663	Introduction to Cyberlaw	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Comparative Politics)
MARKETNG/ INTL BUS 420	Global Marketing Strategy	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
PHILOS/ ENVIR ST 441	Environmental Ethics	SOC 225	Contemporary Chinese Society
PHILOS 555	Political Philosophy	SOC/ C&E SOC 341	Labor in Global Food Systems
POLI SCI 320	Governments and Politics of the Middle East and North Africa	SOC 626	Social Movements
POLI SCI 321	Latin-American Politics	SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
POLI SCI 322	Politics of Southeast Asia	SOC 632	Sociology of Organizations
POLI SCI 323	Islam and World Politics	SOC 633	Social Stratification
POLI SCI 324	Chinese Politics	SOC/ C&E SOC 652	Sociology of Economic Institutions
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	SOC/ECON 663	Population and Society
POLI SCI 328	Politics of East and Southeast Asia	SPANISH/ INTL BUS 329	Spanish for Business
POLI SCI 329	African Politics	SPANISH 479	Latin American Literature and Human Rights
POLI SCI 332	German Politics	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
POLI SCI 334	Russian Politics		
POLI SCI 340	The European Union: Politics and Political Economy		
POLI SCI 350	International Political Economy		
POLI SCI 356	Principles of International Law		
POLI SCI 377	Nuclear Weapons and World Politics		

**Total Credits****15****ELECTIVES**

To complete the 35 credits required for the major, additional courses may be necessary. These courses can be additional Issues courses within the major option, or Issues courses from the other major options.

Code	Title	Credits
<i>Approved Elective courses:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 300	African Literature in Translation	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ PORTUG 451	Lusophone African Literature	
AFRICAN 453	Modern African Literature in English	
AFRICAN 500	Language and Society in Africa	
AFRICAN 609	Advanced Topics in Global Black Music Studies	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	
ANTHRO 322	The Origins of Civilization	
ANTHRO 330	Topics in Ethnology (SE Asia)	
ANTHRO 350	Political Anthropology	
ANTHRO 357	Introduction to the Anthropology of Japan	
ANTHRO 365	Medical Anthropology	
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ART HIST 350	19th Century Painting in Europe	
ART HIST 351	20th Century Art in Europe	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST 372	Arts of Japan	
ART HIST/ RELIG ST 373	Great Cities of Islam	
ART HIST 411	Topics in Asian Art	
ART HIST 454	Art in Germany, 1900-1945	
ART HIST 479	Art and History in Africa	
ART HIST 510	Proseminar in Islamic Art and Architecture	
ASIAN 253	Japanese Popular Culture	
ASIAN 300	Topics in Asian Studies (Indian Traditions Modern Age)	
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	
ASIAN 311	Modern Indian Literatures	
ASIAN 352	Survey of Modern Chinese Literature	
ASIAN 357	Japanese Ghost Stories	
ASIAN 361	Love and Politics: The Tale of Genji	
ASIAN/ HISTORY 363	China and World War II in Asia	

ASIAN 371	Topics in Chinese Literature	COM ARTS 455	French Film
ASIAN 374		COM ARTS 458	Global Media Cultures
ASIAN 375	Survey of Chinese Film	COM ARTS/ ITALIAN 460	Italian Film
ASIAN 376	Manga	COM ARTS 470	Contemporary Political Discourse
ASIAN 378	Anime	COM ARTS 557	Contemporary Media Industries
ASIAN/ ART HIST 379	Cities of Asia	COM ARTS 577	Dynamics of Online Relationships
ASIAN/ ART HIST 428	Visual Cultures of India	COMP LIT 203	Introduction to Cross-Cultural Literary Forms
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	CURRIC 292	Globalizing Education
ASIAN 563	Readings in Modern Japanese Literature	CURRIC 366	Internationalizing Educational Knowledge
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	DS/ LAND ARC 639	Culture and Built Environment
ASIAN 630	Proseminar: Studies in Cultures of Asia (Queer Asia)	ECON 330	Money and Banking
ASIAN 655	Ethnography in Asia	ECON 364	Survey of International Economics
ASIALANG 677	Advanced Readings in Tibetan	ECON 464	International Trade
ASIAN 355	Modern Japanese Literature	ECON/ HISTORY 466	The American Economy Since 1865
ASIAN 403	Southeast Asian Literature	ECON 467	International Industrial Organizations
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	ECON 475	Economics of Growth
ATM OCN 100	Weather and Climate	ED POL 150	Education and Public Policy (Human Rights & Education)
ATM OCN 101	Weather and Climate	ED POL 240	Comparative Education
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	ED POL/ INTL ST 335	Globalization and Education
ATM OCN/ ENVIR ST 520	Bioclimatology	ED POL/ ANTHRO 570	Anthropology and Education
ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	ED POL 675	Introduction to Comparative and International Education
BOTANY 240	Plants and Humans	ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies
C&E SOC/ SOC 245	Technology and Society	ENGL 174	Literature and Social Justice
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings
C&E SOC/SOC/ URB R PL 617	Community Development	ENGL 352	Modernist Poetry
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration	ENGL 353	British Literature since 1900
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	ENGL 453	Topic in British Literature and Culture since 1900
COM ARTS 346	Critical Internet Studies	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
COM ARTS 350	Introduction to Film	ENGL/ ENVIR ST 533	Topic in Literature and the Environment
COM ARTS 352	Film History to 1960	ENGL/ THEATRE 575	British Drama, 1914 to Present
COM ARTS 371	Communication and Conflict Resolution	ENVIR ST/ILS 126	Principles of Environmental Science
COM ARTS 372	Rhetoric of Campaigns and Revolutions	ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
COM ARTS/ RELIG ST 374	The Rhetoric of Religion	ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts

ENVIR ST/A A E/ ECON 343	Environmental Economics	FRENCH 465	French/Francophone Film
ENVIR ST/ LAND ARC 361	Wetlands Ecology	FRENCH 467	Aspects of Contemporary French Literature
ENVIR ST/ BSE 367	Renewable Energy Systems	FRENCH 472	French/Francophone Literature and Women
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)	GEN&WS/ ENGL 250	Women in Literature
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Conserving Biodiversity)	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	GEN&WS 420	Women in Cross-Societal Perspective
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	GEN&WS 424	Women's International Human Rights
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	GEN&WS/ URB R PL 644	International Development and Gender
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	GEOG 101	Introduction to Human Geography
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	GEOG/ ENVIR ST 120	Introduction to the Earth System
F&W ECOL 318	Principles of Wildlife Ecology	GEOG/ ENVIR ST 127	Physical Systems of the Environment
F&W ECOL 375	Special Topics (Freshwater Conservation)	GEOG 301	Revolutions and Social Change
F&W ECOL 410	Principles of Silviculture	GEOG 302	Economic Geography: Locational Behavior
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	GEOG/ ENVIR ST 139	Global Environmental Issues
FOLKLORE 510	Folklore Theory	GEOG/ URB R PL 305	Introduction to the City
FRENCH 211	French Literary and Interdisciplinary Studies	GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	GEOG 318	Introduction to Geopolitics
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past
FRENCH 322	Modern French and Francophone Literature	GEOG/ BOTANY 338	Environmental Biogeography
FRENCH 325	Visual Culture in French/Francophone Studies	GEOG/ ENVIR ST 339	Environmental Conservation
FRENCH 348	Modernity Studies	GEOG 340	World Regions in Global Context
FRENCH 449	Francophone Modernity Studies	GEOG 349	Europe
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	GEOG 355	Africa, South of the Sahara
		GEOG 358	Human Geography of Southeast Asia
		GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
		GEOG/ENVIR ST/ HISTORY 460	American Environmental History

GEOG 475	Topics in Geography	HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II
GEOG/ URB R PL 506	Historical Geography of European Urbanization	HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
GEOG 510	Economic Geography	HISTORY 201	The Historian's Craft (various)
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)
GEOG/ ENVIR ST 537	Culture and Environment	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	HISTORY 223	Explorations in European History (H) (Cold War in European Culture)
GEOSCI/ ATM OCN 105	Survey of Oceanography	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)
GEOSCI/ ENVIR ST 106	Environmental Geology	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)
GEOSCI/ ENVIR ST 411	Energy Resources	HISTORY 241	Latin America from 1780 to 1940
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	HISTORY/ INTL ST/ LACIS 242	Modern Latin America
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War
GERMAN 278	Topics in German Culture (Culture in 20th Century)	HISTORY/ ASIAN 319	The Vietnam Wars
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	HISTORY 357	The Second World War
GERMAN 362	Topics in German Literature (Musik)	HISTORY/ POLI SCI 370	Islam and Politics
GERMAN 362	Topics in German Literature (Migration in deutscher)	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	HISTORY 403	Immigration and Assimilation in American History
GERMAN 372	Topics in German Culture (Oesterreich)	HISTORY 418	History of Russia
GERMAN 372	Topics in German Culture (Deutscher Film)	HISTORY 419	History of Soviet Russia
GERMAN 372	Topics in German Culture (Green Germany)	HISTORY 420	Russian Social and Intellectual History
GERMAN 372	Topics in German Culture (China-German Point of View)	HISTORY/ LEGAL ST 426	The History of Punishment
GERMAN 372	Topics in German Culture (Theater auf Deutsch)	HISTORY 434	American Foreign Relations, 1901 to the Present
GERMAN 411	Kultur des 20. und 21. Jahrhunderts	HISTORY 441	Revolution and Conflict in Modern Latin America
GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)	HISTORY 450	Making of Modern South Asia
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	HISTORY/ ASIAN 454	Samurai: History and Image
GERMAN/ COM ARTS 655	German Film		
HIST SCI/ ENVIR ST 353	History of Ecology		

HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy
HISTORY 533	Multi-Racial Societies in Latin America	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization
HISTORY 600	Advanced Seminar in History (Global Religious Revivals)	INTL ST 504	Study Abroad Topics in Global Environment
HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)	INTL ST 520	Study Abroad Topics in International Studies
HISTORY 607	The American Impact Abroad: The Historical Dimension	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
HORT 370	World Vegetable Crops	INTL ST 601	Topics in Global Security
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	INTL ST 602	Topics in Politics and Policy in the Global Economy
INTL BUS 200	International Business	INTL ST 603	Topics in Culture in the Age of Globalization
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	INTL ST 620	Topics in International Studies
INTL BUS 365	Contemporary Topics (International Perspectives)	INTL ST 622	Washington DC Sem in International Affairs Seminar
INTL BUS/A A E/ ECON 462	Latin American Economic Development	ITALIAN 230	Modern Italian Culture
INTL ST/ AFRICAN 302	Arabic Literature and Cinema	ITALIAN 322	Studies in Italian Literature and Culture II
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	ITALIAN 450	Special Topics in Italian Literature (Theater Workshop: Text to Stage)
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)
INTL ST/ ED POL 335	Globalization and Education	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)
INTL ST/ A A E 373	Globalization, Poverty and Development	ITALIAN/ COM ARTS 460	Italian Film
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	JEWISH/ POLI SCI 341	Israeli Politics and Society
INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire	JEWISH/ LITTRANS 367	Israeli Fiction in Translation
INTL ST 401	Topics in Global Security	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
INTL ST 402	Topics in Politics and Policy in the Global Economy	JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education
INTL ST 403	Topics in Culture in the Age of Globalization	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	JOURN 618	Mass Communication and Political Behavior
INTL ST/ POLI SCI 431	Contentious Politics	JOURN 620	International Communication
INTL ST/ POLI SCI 434	The Politics of Human Rights	JOURN 621	Mass Communication in Developing Nations
INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	L I S 201	The Information Society
INTL ST/ POLI SCI 439	The Comparative Study of Genocide	L I S 661	Information Ethics and Policy
INTL ST 501	Study Abroad Topics in Global Security	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)
		LEGAL ST 409	Human Rights in Law and Society

LEGAL ST/ L I S 663	Introduction to Cyberlaw	LITTRANS 473	Polish Literature (in Translation) since 1863
LINGUIS/ ANTHRO 430	Language and Culture	MARKETNG/ INTL BUS 420	Global Marketing Strategy
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	MUSIC/ FOLKLORE 402	Musical Cultures of the World
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	MUSIC 416	Survey of Music in the Twentieth Century
LITTRANS 220	Chekhov: The Drama of Modern Life	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	PHILOS/ ENVIR ST 441	Environmental Ethics
LITTRANS 222	Dostoevsky in Translation	PHILOS 555	Political Philosophy
LITTRANS 224	Tolstoy in Translation	PHILOS 557	Issues in Social Philosophy
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	POLI SCI 323	Islam and World Politics
LITTRANS 240	Soviet Literature in Translation	POLI SCI 324	Chinese Politics
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	POLI SCI 330	Political Economy of Development
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	POLI SCI 340	The European Union: Politics and Political Economy
LITTRANS/ GEN&WS 270	German Women Writers in Translation	POLI SCI/ JEWISH 341	Israeli Politics and Society
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	POLI SCI 343	Theories of International Security
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	POLI SCI 346	China in World Politics
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	POLI SCI 347	Terrorism
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	POLI SCI 348	Analysis of International Relations
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	POLI SCI 350	International Political Economy
LITTRANS 331	In Translation: Scandinavian Topics in Depth	POLI SCI 354	International Institutions and World Order
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	POLI SCI 356	Principles of International Law
LITTRANS 368	Modern Japanese Fiction	POLI SCI 359	American Foreign Policy
LITTRANS 373	Topics in Japanese Literature (Evangelion)	POLI SCI 363	Literature and Politics
LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)	POLI SCI 377	Nuclear Weapons and World Politics
LITTRANS 373	Topics in Japanese Literature (Writing the Environment)	POLI SCI 401	Selected Topics in Political Science (Global Governance)
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	POLI SCI 401	Selected Topics in Political Science (Authoritarianism)
		POLI SCI 421	The Challenge of Democratization
		POLI SCI/ INTL ST 423	Social Mobilization in Latin America
		POLI SCI/ INTL ST 431	Contentious Politics
		POLI SCI 432	Comparative Legal Institutions
		POLI SCI/ INTL ST 434	The Politics of Human Rights
		POLI SCI 438	Comparative Political Culture
		POLI SCI/ INTL ST 439	The Comparative Study of Genocide
		POLI SCI 455	African International Relations

POLI SCI 460	Topics in Political Philosophy (Economic Inequality)	SLAVIC 440	Soviet Literature
POLI SCI 529	Arab-Israeli Conflict	SLAVIC 449	History of Serbo-Croatian Literature
POLI SCI 534	Socialism and Transitions to the Market	SLAVIC 454	Modern Serbo-Croatian Literature
POLI SCI 538	Politics and Policies in the European Union	SLAVIC 472	History of Polish Literature after 1863
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	SOC 170	Population Problems
POLI SCI 652	The Politics of Development	SOC 225	Contemporary Chinese Society
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	SOC 496	Topics in Sociology (Intercultural Dialogues)
PORTUG/ GEN&WS 450	Brazilian Women Writers	SOC 496	Topics in Sociology (The Soviet Jewish Experience)
PORTUG 467	Survey of Portuguese Literature since 1825	SOC 496	Topics in Sociology (Asylum and Refugees)
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	SOC/ C&E SOC 541	Environmental Stewardship and Social Justice
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	SOC 626	Social Movements
PSYCH 428	Introduction to Cultural Psychology	SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
RELIG ST/ ANTHRO 343	Anthropology of Religion	SOC 632	Sociology of Organizations
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	SOC 633	Social Stratification
RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	SOC 640	Sociology of the Family
SCAND ST 251	Readings in Norwegian Literature	SOC 646	Race and Ethnic Relations
SCAND ST 261	Readings in Swedish Literature	SOC/ ED POL 648	Sociology of Education
SCAND ST 271	Readings in Danish Literature	SOC/ C&E SOC 652	Sociology of Economic Institutions
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	SOC/ECON 663	Population and Society
SCAND ST 427	Contemporary Scandinavian Literature	SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)	SPANISH/ LACIS 285	Race and Culture in the Americas
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	SPANISH 324	Survey of Modern Spanish Literature
SCAND ST 476	Scandinavian Life and Civilization II	SPANISH 326	Survey of Spanish American Literature
SCAND ST 520	Special Topics (Humor and Noir)	SPANISH/ INTL BUS 329	Spanish for Business
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	SPANISH 361	Spanish Civilization
SLAVIC 242	Literatures and Cultures of Eastern Europe	SPANISH 363	Spanish American Civilization
SLAVIC 321	Fourth Year Russian I	SPANISH 453	Literature of the Twentieth Century
SLAVIC 322	Fourth Year Russian II	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SLAVIC 405	Women in Russian Literature	SPANISH 461	The Spanish American Short Story
SLAVIC 420	Chekhov	SPANISH 462	Spanish American Theater and Drama
SLAVIC 434	Contemporary Russian Culture	SPANISH 464	Spanish American Poetry and Essay
		SPANISH 468	Topics in Hispanic Culture (Documentary Film)



SPANISH 468	Topics in Hispanic Culture (Minds and Machines)
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)
THEATRE 327	History of Costume for the Stage
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 424	Contemporary World Theatre and Dramatic Literature
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
THEATRE 526	The Theatres of China and Japan
THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology

## INTERNATIONAL STUDIES, B.S.

International studies (IS) is an interdisciplinary major with a broad background in international and transnational political, social, economic, commercial, and environmental affairs, together with a comparative study of politics, economics, security, and culture. The goal is to provide students with the necessary tools to understand global processes in their totality and how they are situated and lived in specific regions. The major provides an integrated program of courses that lays the foundation for professional training in a wide variety of areas. Such a foundation can be invaluable in securing a place in competitive graduate or professional schools, which, in turn, prepare students for government service, or for other careers with an international focus, including those in multinational corporations, international finance, non-governmental organizations, and institutions of teaching and research.

The IS major complements numerous majors across campus. Many students choose to double major or enhance their studies with one or more certificates, such as the global health certificate or those offered by the area studies centers.

This major is interdisciplinary, offering a wealth of options. Careful planning and consultation with the IS advisor is especially important.

## IS MAJORS SPECIALIZE IN ONE OF THREE OPTIONS:

### Option I: Global Security

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

### Option II: Politics and Policy in the Global Economy

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, US trade imbalances, aid and development, and related environmental and natural resource problems.

### Option III: Culture in the Age of Globalization

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

## STUDY ABROAD

International studies and studying abroad are a natural combination. While study abroad is not a requirement for the major, all IS students are strongly encouraged to pursue a significant international experience during the course of the undergraduate career. Whether through a study abroad program, an internship, or service learning, the experience of studying or working in a foreign culture is invaluable. Many courses taken abroad will count toward the IS major. See the IS advisor for specific guidelines. More information about study abroad and internships is available through International Academic Programs (<http://www.studyabroad.wisc.edu/>).

## HOW TO GET IN

Students are advised to declare the major by the end of the sophomore year and/or before studying abroad.

To be eligible to declare the international studies major a student must have completed these courses:

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
Introductory Economics (complete one):		4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	

ECON 111	Principles of Economics–Accelerated Treatment <sup>2</sup>
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics
POLI SCI 350	International Political Economy
<b>Complete the 5th unit of a foreign language</b> <b>3-4</b>	
Consult the list of Foreign Language courses on the Requirements page	

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*
- \* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Foreign Language	Complete the third unit of a foreign language.

L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	• 2.000 in all coursework at UW–Madison • 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS OF THE MAJOR

Students must declare the major, complete the common requirements, and the requirements for one of these options (p. 957) within the international studies major:

- Culture in the Age of Globalization
- Global Security
- Politics and Policy in the Global Economy

A student may not declare or earn more than one major option. The major requires 35 credits total.<sup>1</sup>

### COMMON MAJOR REQUIREMENTS INTRODUCTORY REQUIREMENTS

Code	Title	Credits
INTL ST 101	Introduction to International Studies	3-4
<b>Introductory Economics (complete one of the following):</b>		<b>4-8</b>
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics–Accelerated Treatment	
A A E 215 & ECON 102	Introduction to Agricultural and Applied Economics and Principles of Macroeconomics	
POLI SCI 350	International Political Economy	
<b>Foreign Language (Complete one):</b>		<b>3-4</b>

AFRICAN 329	Fifth Semester Arabic	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
AFRICAN 330	Sixth Semester Arabic	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
AFRICAN 343	Fifth Semester Summer Arabic	FRENCH 321	Medieval and Early Modern French Literature
AFRICAN 344	Sixth Semester Summer Arabic	FRENCH 322	Modern French and Francophone Literature
AFRICAN 435	Fifth Semester Swahili	FRENCH 325	Visual Culture in French/ Francophone Studies
AFRICAN 436	Sixth Semester Swahili	FRENCH 347	Medieval and Early Modern Culture
AFRICAN 445	Advanced Readings in Arabic Texts	FRENCH 348	Modernity Studies
AFRICAN 475	Fifth Semester Yoruba	FRENCH 350	Applied French Language Studies
AFRICAN 476	Sixth Semester Yoruba	FRENCH/ ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages
ASIALANG 301	Fifth Semester Chinese	FRENCH 430	Readings in Medieval and Renaissance Literature
ASIALANG 302	Sixth Semester Chinese	FRENCH 431	Readings in Early Modern Literature
ASIALANG 303	Fifth Semester Japanese	FRENCH 449	Francophone Modernity Studies
ASIALANG 304	Sixth Semester Japanese	FRENCH 461	French/Francophone Literary Studies Across the Centuries
ASIALANG 305	Fifth Semester Korean	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
ASIALANG 306	Sixth Semester Korean	FRENCH 472	French/Francophone Literature and Women
ASIALANG 323	Fifth Semester Filipino	FRENCH 590	Introduction to Phonetics
ASIALANG 324	Sixth Semester Filipino	GERMAN 235	Dutch Conversation and Composition
ASIALANG 325	Fifth Semester Hmong	GERMAN 249	Intermediate German - Speaking and Listening
ASIALANG 326	Sixth Semester Hmong	GERMAN 258	Intermediate German-Reading
ASIALANG 348	Fifth Semester Indonesian	GERMAN 262	Intermediate German-Writing
ASIALANG 328	Sixth Semester Indonesian	GERMAN 305	Literatur des 20. und 21. Jahrhunderts
ASIALANG 329	Fifth Semester Thai	GERMAN 313	Third Semester Dutch for Graduate Students
ASIALANG 330	Sixth Semester Thai	GERMAN 325	Topics in Dutch Literature
ASIALANG 331	Fifth Semester Vietnamese	GERMAN 337	Advanced Composition & Conversation
ASIALANG 332	Sixth Semester Vietnamese	GERMAN 351	Introduction to German Linguistics
ASIALANG 333	Fifth Semester Hindi	GERMAN 352	Topics in German Linguistics
ASIALANG 334	Sixth Semester Hindi	GERMAN 367	Study Abroad in German Literature
ASIALANG 335	Fifth Semester Tibetan	GERMAN 368	Study Abroad in German Culture
ASIALANG 336	Sixth Semester Tibetan	GERMAN 369	Study Abroad in German Linguistics
ASIALANG 337	Fifth Semester Persian	GERMAN 377	Study Abroad in Dutch Literature
ASIALANG 338	Sixth Semester Persian	GERMAN 378	Study Abroad in Dutch Culture
ASIALANG 339	Fifth Semester Urdu	GERMAN 379	Study Abroad in Dutch Linguistics
ASIALANG 340	Sixth Semester Urdu	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
ASIALANG 343	Fifth Semester Burmese	GERMAN 625	Letterkunde der Lage Landen
ASIALANG 344	Sixth Semester Burmese	GERMAN 632	A Theme in German Literature
ASIALANG 345	Fifth Semester Khmer	GERMAN 645	Cultuurkunde der Lage Landen
ASIALANG 346	Sixth Semester Khmer	GERMAN 677	Seminar in German Culture Studies
ASIALANG 507	Fifth Semester Southeast Asian Language		
ASIALANG 508	Sixth Semester Southeast Asian Language		
ASIALANG 517	Fifth Semester South Asian Language		
ASIALANG 527	Sixth Semester South Asian Language		
ASIAN 355	Modern Japanese Literature		
ESL 118	Academic Writing II <sup>1</sup>		
FRENCH 228	Intermediate Language and Culture		
FRENCH 271	Literature, Comics, and Film in French		
FRENCH 311	Advanced Composition and Speaking		
FRENCH 312	Advanced Writing Workshop		

GREEK 401	Readings in Greek Literature	PORTUG 311	Fourth Year Composition and Conversation
GREEK 505	Elementary Prose Composition	PORTUG 312	Fourth Year Composition and Conversation
GREEK 510	Homer	SCAND ST 251	Readings in Norwegian Literature
GREEK 511	Hesiod	SCAND ST 261	Readings in Swedish Literature
GREEK 512	Greek Lyric Poets	SCAND ST 271	Readings in Danish Literature
GREEK 520	Greek Comedy	SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900
GREEK 521	Greek Tragedy	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
GREEK 532	Thucydides	SCAND ST 401	Contemporary Scandinavian Languages
GREEK 551	Attic Orators	SCAND ST 419	Scandinavian Children's Literature
GREEK 560	Hellenistic Greek	SCAND ST 422	The Drama of Henrik Ibsen
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	SCAND ST 423	The Drama of August Strindberg
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	SCAND ST 424	Nineteenth-Century Scandinavian Fiction
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	SCAND ST 426	Kierkegaard and Scandinavian Literature
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	SCAND ST 427	Contemporary Scandinavian Literature
HEBR-BIB/ JEWISH 513	Biblical Texts, Poetry	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
HEBR-BIB/ JEWISH 514	Biblical Texts, Poetry	SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation
ITALIAN 230	Modern Italian Culture	SCAND ST 496	The Scandinavian Heritage in America
ITALIAN 311	Advanced Italian Language	SLAVIC 275	Third Year Russian I
ITALIAN 312	Writing Workshop	SLAVIC 276	Third Year Russian II
ITALIAN 321	Studies in Italian Literature and Culture I	SLAVIC 277	Third Year Polish I
ITALIAN 322	Studies in Italian Literature and Culture II	SLAVIC 278	Third Year Polish II
ITALIAN/ FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages	SLAVIC 307	Study Abroad in Poland
ITALIAN 450	Special Topics in Italian Literature	SLAVIC 308	Polish Culture and Area Studies on Study Abroad
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	SLAVIC 309	Russian Area Studies on Study Abroad
ITALIAN 601	The 19th Century	SLAVIC 315	Russian Language and Culture I
ITALIAN 621	The 18th Century	SLAVIC 316	Russian Language and Culture II
ITALIAN 631	Features in Italian Literature	SLAVIC 321	Fourth Year Russian I
ITALIAN 636	The Italian Novel	SLAVIC 322	Fourth Year Russian II
ITALIAN 651	The Renaissance	SLAVIC 331	Fourth Year Polish I
ITALIAN/ MEDIIEVAL 659	Dante's Divina Commedia	SLAVIC 332	Fourth Year Polish II
ITALIAN/ MEDIIEVAL 671	The 13th Century	SLAVIC 420	Chekhov
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	SLAVIC 421	Gogol
LATIN 302	Latin Literature of the Roman Empire	SLAVIC 422	Dostoevsky
LATIN 401	Readings in Latin Literature	SLAVIC 424	Tolstoy
LATIN 505	Elementary Prose Composition	SLAVIC 440	Soviet Literature
PORTUG 225	Third Year Conversation and Composition	SLAVIC 472	History of Polish Literature after 1863
PORTUG 226	Third Year Conversation and Composition	SPANISH 223	Introduction to Hispanic Cultures
		SPANISH 224	Introduction to Hispanic Literatures
		SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar

SPANISH 311	Advanced Language Practice
SPANISH 319	Topics in Spanish Language Practice
SPANISH 320	Spanish Phonetics
SPANISH 322	Survey of Early Hispanic Literature
SPANISH 327	Introduction to Spanish Linguistics
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH 417	Literatura del Siglo de Oro
SPANISH 435	Cervantes
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 466	Topics in Spanish American Literature
SPANISH 468	Topics in Hispanic Culture
SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics

**Total Credits** 10-16

## AREA STUDIES

**Code** **Title** **Credits**  
**Complete one of:** 3-4

AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations
GEOG 340	World Regions in Global Context
HISTORY 120	Europe and the Modern World 1815 to the Present
HISTORY 139	Introduction to the Modern Middle East
HISTORY 142	History of South Asia to the Present
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
HISTORY/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction
HISTORY/ ASIAN 341	History of Modern China, 1800-1949
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present

HISTORY 348	France from Napoleon to the Great War, 1799-1914
HISTORY 349	Contemporary France, 1914 to the Present
HISTORY 359	History of Europe Since 1945
HISTORY 410	History of Germany, 1871 to the Present
HISTORY 424	The Soviet Union and the World, 1917-1991
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
INTL ST 266	Introduction to the Middle East
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey

**Total Credits** 3-4

## COMPLETE THE OPTION CORE AND ISSUES AND ADDITIONAL ELECTIVES OF THE DECLARED OPTION (P. 957)

## OPTIONS IN THE MAJOR

View as listView as grid

- INTERNATIONAL STUDIES: CULTURE IN AN AGE OF GLOBALIZATION (P. 921)
- INTERNATIONAL STUDIES: GLOBAL SECURITY (P. 932)
- INTERNATIONAL STUDIES: POLITICS AND POLICY IN THE GLOBAL ECONOMY (P. 943)

Each option in the major **requires 35 credits**. This is in addition to completing the introductory requirements. Students select one Area Studies course (above), and the option-specific requirements for Core, Issues, and Elective classes.<sup>1</sup>

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all INTL ST courses and courses approved for the major
- 2.000 GPA on 15 Upper-Level major credits, taken in residence<sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the International Studies Major in consultation with the International Studies advisor(s). They must declare prior to enrollment in their Senior Honors Thesis (typically second semester of junior year).

## REQUIREMENTS FOR HONORS IN THE MAJOR

To earn Honors in the Major in International Studies, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA in major courses
- Complete 16 upper-level major credits, taken for Honors, with individual grades of B or better in each course<sup>2,3</sup>
- Complete a two-semester Senior Honors Thesis, for a total of 6 credits, or two Senior Seminars, with grades of B or better; choose from:

Code	Title	Credits
<b>Senior Honors Thesis (2 courses):</b>		
AFRICAN 681 & AFRICAN 682	Senior Honors Thesis and Senior Honors Thesis	
ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis	
FRENCH 681 & FRENCH 682	Senior Honors Thesis and Senior Honors Thesis	
GERMAN 681 & GERMAN 682	Senior Honors Thesis-First Semester and Senior Honors Thesis-Second Semester	
HISTORY 681 & HISTORY 682	Senior Honors Thesis and Senior Honors Thesis	
INTL ST 681 & INTL ST 682	Senior Honors Thesis and Senior Honors Thesis	
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis	
PORTUG 681 & PORTUG 682	Senior Honors Thesis and Senior Honors Thesis	
SLAVIC 681 & SLAVIC 682	Senior Honors Thesis and Senior Honors Thesis	
SPANISH 681 & SPANISH 682	Senior Honors Thesis and Senior Honors Thesis	
<b>Senior Seminar (2 courses):</b>		
INTL ST 601	Topics in Global Security	
INTL ST 602	Topics in Politics and Policy in the Global Economy	
INTL ST 603	Topics in Culture in the Age of Globalization	

## FOOTNOTES

1

A maximum four courses from a single SUBJECT may be applied to the 35 credits in the major. This excludes INTL ST courses and courses cross-listed in INTL ST. For example: A student with five POLI SCI courses that could apply to the major will see only four of those courses applying in the International Studies major. (However, if one of those POLI SCI courses is also cross-listed in INTL ST, that course will not count against the limit, and thus, all five POLI SCI courses will apply in the major.) The degree audit (DARS) enforces this limitation.

Though some courses are identified as acceptable for two or more requirements, a course may meet only one requirement within the major. For example, a course that could count in either Option Core or Option Issues will meet only one of those requirements, based on which requirement needs that course to become satisfied. The degree audit (DARS) determines the best scenario.

2

Major courses designated Intermediate and Advanced level are considered upper-level.

3

A maximum of two courses and 8 credits from UW-Madison Study Abroad may apply to this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Interdisciplinarity) analyzing contemporary political, economic, security and cultural realities globally from multi-disciplinary perspectives, ideally including humanities, social sciences, humanitarian, and sometimes natural science approaches.
2. (Depth of knowledge) mastering at the undergraduate generalist level major issues related to key themes in International Studies (e.g. culture, global security and political economy) by taking 15 credits in one particular theme area.

3. (Regional (studies) grounding) understanding the social, political, economic and cultural forces and conditions that have given rise to the unity and diversity of a specific region of the world today.
4. (Language knowledge) mastering at the undergraduate generalist level a particular facet of life in one or more region of the world by studying a foreign language to at least the advanced (5th semester) level.
5. (Analytical skills) demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

Apply for Summer Internship

		15	16
<b>Senior</b>			
Fall	Credits	Spring	Credits
Track Core in IS Major		3 Track Core in IS Major	3
Elective in IS Major		3 Elective in IS Major	3
L&S Breadth		3 Elective in IS Major	3
L&S Breadth		3 L&S Breadth	3
Free Elective (or IA level Math, Comp Sci, or Stats for BS)		3 Free Elective	3
		15	15
<b>Total Credits 120</b>			

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
INTL ST 101		4 ECON 101	4
ILS 138		1 Foreign Language	4
Foreign Language		4 Communication B	4
Communication A		3 Physical Science Breadth	3
Quantitative Reasoning A		3	
		15	15

#### Sophomore

Fall	Credits	Spring	Credits
Declare the IS Major (before 86 credits)		Issues in IS Major	3
ECON 102		3 Issues in IS Major	3
Foreign Language		4 Foreign Language Language	4
Area Studies in IS Major		3 Ethnic Studies	3
Biological Science Breadth		3 Literature Breadth	3
		Apply for Summer Internship	
		13	16

#### Junior

Fall	Credits	Spring	Credits
Recommend Study Abroad		Recommend Study Abroad	
Issues in IS Major		3 Issues in IS Major	3
Issues in IS Major		3 Elective in IS Major	4
5th Semester Language		3 L&S Breadth	3
L&S Breadth		3 L&S Breadth	3
L&S Breadth		3 Free Elective (or I/A level Math, Comp Sci, or Stats for BS)	3

## ADVISING AND CAREERS

### INTERNATIONAL STUDIES MAJOR ADVISING STAFF

International studies majors have a wide variety of academic advising and career resources and support. Academic advising is essential to a successful undergraduate experience. For this reason, the international studies major has a professional advisor, a peer advisor, and a career advisor. We recommend that you meet with your advisor at least once per semester to track progress toward your degree, explore study abroad options, and begin the career exploration process. The IS major offers walk-in advising, advising workshops, and scheduled appointments. Students exploring the IS major should plan to attend an Intro to the IS Major workshop, watch the Intro to the IS Major video, or meet with a peer advisor. To learn more about academic advising information, please visit the IS Major website (<https://ismajor.wisc.edu/academic-advising/>).

Students should also begin the career advising process early. The international studies major offers a 1-credit career class designed for sophomores or juniors. Students are strongly encouraged to meet with both the IS career advisor and SuccessWorks at the College of Letters & Science, and to apply for internship opportunities—both domestically and via International Internship Programs or the Washington DC Internship Program. The IS major also advertises career events across campus that will benefit undergraduate students, hosts career workshops, and has a transition checklist to help students prepare for post-undergraduate life. For more information, please visit our website (<https://ismajor.wisc.edu/career-advising/>).

**Molly Donnellan, Academic Advisor**  
**Csanád Siklós, Ph.D., Academic Advisor**  
**Lindsey Bliedernicht, M.S., Academic Advisor**  
**Joel Clark, Ph.D., Career Advisor**

## LETTERS & SCIENCE CAREER RESOURCES

The program encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks (<https://careers.ls.wisc.edu>) at the College of Letters & Science. L&S graduates are in high demand by employers and graduate

programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

The International Studies Major is directed by Dr. Erica Simmons, Associate Professor of Political Science.

The advisors for the international studies major are Molly Donnellan, Lindsey Bliefert, and Dr. Csanád Siklós.

The career advisor is Dr. Joel Clark.

Please visit our website for a list of faculty and instructional staff (<https://ismajor.wisc.edu/people/>).

## WISCONSIN EXPERIENCE

### STUDY ABROAD

International studies majors are strongly encourage to study abroad. The International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/study-abroad/>) provides information about how to plan your experience abroad.

## INTERNSHIP ABROAD

International studies majors are strongly encourage to study abroad. Please review information on the International Studies Major website (<http://www.ismajor.wisc.edu/about/current-students/internships/>) and the International Internship Program website (<http://internships.international.wisc.edu/>) about opportunities.

## UNDERGRADUATE RESEARCH

The international studies major encourages students to become engaged in undergraduate research. There are numerous programs (<https://teachlearn.provost.wisc.edu/initiatives-and-programs/undergraduate-research/>) that provide research opportunities for undergraduates at UW-Madison including:

- Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>)
- McNair Scholars (<http://grad.wisc.edu/mcnair/>)
- Summer Research Programs (<https://grad.wisc.edu/diversity/srop/>)
- Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>)
- The Wisconsin Idea Undergraduate Fellowship Program (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>)

## RESOURCES AND SCHOLARSHIPS

For information on scholarships and awards through the IS Major please see our website (<https://ismajor.wisc.edu/scholarships-and-grants/>) or contact our advisors. IS Majors are also strongly encouraged to contact the Awards Office (<https://iris.wisc.edu/funding/>) at the Institute for Regional and International Studies to explore multiple international awards and scholarships.

## INTERNATIONAL STUDIES: CULTURE IN AN AGE OF GLOBALIZATION

### REQUIREMENTS

### CULTURE IN THE AGE OF GLOBALIZATION OPTION REQUIREMENTS

In this option, majors investigate cross-cultural interactions at different levels: local, national, and transnational. Students engage in such issues as cosmopolitanism; international and global flows of images, ideas, and people; questions of identity; changing assumptions of what it means to be indigenous and foreign; globalization and technology; and the impact of globalization on cultures.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Culture in the Age of Globalization Option:



## CULTURE IN THE AGE OF GLOBALIZATION CORE

Code	Title	Credits
<b>Complete Two of:</b>		<b>6</b>
AFRICAN 403	Theories of African Cultural Studies	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 669	Special Topics (Celebrity Culture)	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	
ASIAN 630	Proseminar: Studies in Cultures of Asia	
COM ARTS 458	Global Media Cultures	
GEN&WS 420	Women in Cross-Societal Perspective	
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	
HISTORY 403	Immigration and Assimilation in American History	
HISTORY 600	Advanced Seminar in History (Global Religious Revivals)	
INTL ST 403	Topics in Culture in the Age of Globalization	
INTL ST 603	Topics in Culture in the Age of Globalization	
INTL ST 620	Topics in International Studies (Global Social Networks)	
JOURN 620	International Communication	
JOURN 621	Mass Communication in Developing Nations	
LINGUIS/ ANTHRO 430	Language and Culture	
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants and Refugees)	
PSYCH 428	Introduction to Cultural Psychology	
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South	
<b>Total Credits</b>		<b>6</b>

## CULTURE IN THE AGE OF GLOBALIZATION ISSUES

Code	Title	Credits
<b>Complete 15 credits from:</b>		<b>15</b>
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	

AFRICAN 300	African Literature in Translation (Arabic Fiction & Falsehood)
AFRICAN 300	African Literature in Translation (Contemp Arabic Lit & Cinema)
AFRICAN 300	African Literature in Translation (African Coming of Age Stories)
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture
AFRICAN 403	Theories of African Cultural Studies
AFRICAN 412	Contemporary African Fiction
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama
AFRICAN/ FRENCH 440	African/Francophone Film
AFRICAN/ PORTUG 451	Lusophone African Literature
AFRICAN 453	Modern African Literature in English
AFRICAN 500	Language and Society in Africa
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture
AFROAMER/ ART HIST 242	Introduction to Afro-American Art
AFROAMER/ ANTHRO/ C&E SOC/ GEOG/ HISTORY/ LACIS/ POLI SCI/ SOC/ SPANISH 260	Latin America: An Introduction
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/ HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
AFROAMER 303	Blacks, Film, and Society
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
AFROAMER/ GEN&WS 333	Black Feminisms
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
AFROAMER/ GEN&WS 677	Critical and Theoretical Perspectives in Black Women's Writings
ANTHRO 300	Cultural Anthropology: Theory and Ethnography
ANTHRO 322	The Origins of Civilization

ANTHRO 330	Topics in Ethnology	COM ARTS 372	Rhetoric of Campaigns and Revolutions
ANTHRO 350	Political Anthropology	COM ARTS/ RELIG ST 374	The Rhetoric of Religion
ANTHRO 357	Introduction to the Anthropology of Japan	COM ARTS 455	French Film
ANTHRO 490	Undergraduate Seminar	COM ARTS 458	Global Media Cultures
ANTHRO 606	Ethnicity, Nations, and Nationalism	COM ARTS/ ITALIAN 460	Italian Film
ART HIST 350	19th Century Painting in Europe	COM ARTS 470	Contemporary Political Discourse
ART HIST 351	20th Century Art in Europe	COM ARTS 557	Contemporary Media Industries
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	COM ARTS 577	Dynamics of Online Relationships
ART HIST 372	Arts of Japan	COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Global Detectives-Fiction and Film)
ART HIST/ RELIG ST 373	Great Cities of Islam	COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Calling Planet Earth)
ART HIST 411	Topics in Asian Art	COMP LIT 203	Introduction to Cross-Cultural Literary Forms (Intro, Comics & Graphic Novels)
ART HIST 454	Art in Germany, 1900-1945	DS 527	Global Artisans
ART HIST 479	Art and History in Africa	DS/ LAND ARC 639	Culture and Built Environment
ART HIST 510	Proseminar in Islamic Art and Architecture	ED POL 150	Education and Public Policy (Human Rights & Education)
ASIAN 253	Japanese Popular Culture	ED POL 240	Comparative Education
ASIAN 300	Topics in Asian Studies	ED POL/ ANTHRO 570	Anthropology and Education
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK
ASIAN 311	Modern Indian Literatures	ENGL 174	Literature and Social Justice
ASIAN 352	Survey of Modern Chinese Literature	ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings
ASIAN 355	Modern Japanese Literature	ENGL 352	Modernist Poetry
ASIAN 357	Japanese Ghost Stories	ENGL 353	British Literature since 1900
ASIAN 374		ENGL 453	Topic in British Literature and Culture since 1900
ASIAN 375	Survey of Chinese Film	ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
ASIAN 376	Manga	ENGL/ ENVIR ST 533	Topic in Literature and the Environment
ASIAN 378	Anime	ENGL/ THEATRE 575	British Drama, 1914 to Present
ASIAN/ ART HIST 379	Cities of Asia	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions
ASIAN 403	Southeast Asian Literature	FOLKLORE 510	Folklore Theory
ASIAN/ ART HIST 428	Visual Cultures of India	FRENCH 211	French Literary and Interdisciplinary Studies
ASIAN 563	Readings in Modern Japanese Literature	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	FRENCH 322	Modern French and Francophone Literature
ASIAN 655	Ethnography in Asia	FRENCH 325	Visual Culture in French/ Francophone Studies
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	FRENCH 348	Modernity Studies
C&E SOC/ SOC 245	Technology and Society	FRENCH 449	Francophone Modernity Studies
C&E SOC/SOC/ URB R PL 617	Community Development		
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration		
COM ARTS 346	Critical Internet Studies		
COM ARTS 350	Introduction to Film		
COM ARTS 352	Film History to 1960		
COM ARTS 372	Rhetoric of Campaigns and Revolutions		

FRENCH 462	French/Francophone Cultural Studies Across the Centuries	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)
FRENCH 465	French/Francophone Film	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
FRENCH 467	Aspects of Contemporary French Literature	GERMAN/ COM ARTS 655	German Film
FRENCH 472	French/Francophone Literature and Women	HISTORY 201	The Historian's Craft (The Catholic Church)
GEN&WS/ ENGL 250	Women in Literature	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	HISTORY 223	Explorations in European History (H) (Cold War in European Culture)
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	HISTORY 223	Explorations in European History (H) (Picturing history: Visual, Culture, and Memory in Modern Europe)
GEN&WS 420	Women in Cross-Societal Perspective	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)
GEOG 101	Introduction to Human Geography	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)
GEOG 301	Revolutions and Social Change	HISTORY 241	Latin America from 1780 to 1940
GEOG/ URB R PL 305	Introduction to the City	HISTORY/ INTL ST/ LACIS 242	Modern Latin America
GEOG 340	World Regions in Global Context	HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 349	Europe	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
GEOG 355	Africa, South of the Sahara	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
GEOG 358	Human Geography of Southeast Asia	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
GEOG 475	Topics in Geography (International Migration and Health)	HISTORY 403	Immigration and Assimilation in American History
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance and Multiculturalism)	HISTORY 420	Russian Social and Intellectual History
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water?)	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	HISTORY 533	Multi-Racial Societies in Latin America
GERMAN 278	Topics in German Culture (Culture in 20th Century)	HISTORY 607	The American Impact Abroad: The Historical Dimension
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	INTL ST/ AFRICAN 302	Arabic Literature and Cinema
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	INTL ST/ ED POL 335	Globalization and Education
GERMAN 362	Topics in German Literature	INTL ST 403	Topics in Culture in the Age of Globalization
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization
GERMAN 372	Topics in German Culture (Oesterreich: Natur als Kultur)		
GERMAN 372	Topics in German Culture (Deutscher Film)		
GERMAN 372	Topics in German Culture (Green Germany/Gruenes Deutschland)		
GERMAN 372	Topics in German Culture (Theater auf Deutsch)		
GERMAN 411	Kultur des 20. und 21. Jahrhunderts		

INTL ST 603	Topics in Culture in the Age of Globalization	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century
INTL ST 620	Topics in International Studies	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Literature)
INTL ST 622	Washington DC Sem in International Affairs Seminar	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)
ITALIAN 230	Modern Italian Culture	LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust, Memory)
ITALIAN 322	Studies in Italian Literature and Culture II	LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
ITALIAN 450	Special Topics in Italian Literature (Theater Wkshop: Text to Stage)	LITTRANS 331	In Translation: Scandinavian Topics in Depth
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
ITALIAN/ COM ARTS 460	Italian Film	LITTRANS 368	Modern Japanese Fiction
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	LITTRANS 373	Topics in Japanese Literature (Evangelion)
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)
JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education	LITTRANS 455	Modern Serbian and Croatian Literature in Translation
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	LITTRANS 473	Polish Literature (in Translation) since 1863
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	MUSIC/ FOLKLORE 402	Musical Cultures of the World
JOURN 620	International Communication	MUSIC 416	Survey of Music in the Twentieth Century
JOURN 621	Mass Communication in Developing Nations	POLI SCI 363	Literature and Politics
L I S 201	The Information Society	PORTUG/ GEN&WS 450	Brazilian Women Writers
LINGUIS/ ANTHRO 430	Language and Culture	PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	PSYCH 428	Introduction to Cultural Psychology
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	RELIG ST/ ANTHRO 343	Anthropology of Religion
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	SCAND ST 251	Readings in Norwegian Literature
LITTRANS 220	Chekhov: The Drama of Modern Life	SCAND ST 261	Readings in Swedish Literature
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	SCAND ST 271	Readings in Danish Literature
LITTRANS 222	Dostoevsky in Translation	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
LITTRANS 224	Tolstoy in Translation	SCAND ST 427	Contemporary Scandinavian Literature
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
LITTRANS 240	Soviet Literature in Translation	SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust in Poland)	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	SCAND ST 476	Scandinavian Life and Civilization II
LITTRANS/ GEN&WS 270	German Women Writers in Translation	SCAND ST 520	Special Topics (Humor and Noir)

SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
SLAVIC 242	Literatures and Cultures of Eastern Europe
SLAVIC 321	Fourth Year Russian I
SLAVIC 322	Fourth Year Russian II
SLAVIC 405	Women in Russian Literature
SLAVIC 433	History of Russian Culture
SLAVIC 434	Contemporary Russian Culture
SLAVIC 440	Soviet Literature
SLAVIC 449	History of Serbo-Croatian Literature
SLAVIC 454	Modern Serbo-Croatian Literature
SLAVIC 472	History of Polish Literature after 1863
SOC 170	Population Problems
SOC 496	Topics in Sociology (Intercultural Dialogues)
SOC 496	Topics in Sociology (Soc, Cul, Pol Contemporary Russia)
SOC 626	Social Movements
SOC 640	Sociology of the Family
SOC 646	Race and Ethnic Relations
SOC/ ED POL 648	Sociology of Education
SPANISH/ LACIS 285	Race and Culture in the Americas
SPANISH 324	Survey of Modern Spanish Literature
SPANISH 326	Survey of Spanish American Literature
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 468	Topics in Hispanic Culture (Documentary Film and Non-Fiction Writing)
SPANISH 477	Latin American Rock Cultures
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
THEATRE 327	History of Costume for the Stage
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 424	Contemporary World Theatre and Dramatic Literature
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
THEATRE 526	The Theatres of China and Japan

THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South

## ELECTIVES

To complete the 35 credits required for the major, additional courses may be necessary. These courses can be additional Issues courses within the major option, or Issues courses from the other major options.

Code	Title	Credits
<i>Approved Elective courses:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 300	African Literature in Translation	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ PORTUG 451	Lusophone African Literature	
AFRICAN 453	Modern African Literature in English	
AFRICAN 500	Language and Society in Africa	
AFRICAN 609	Advanced Topics in Global Black Music Studies	

AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	ASIAN 355	Modern Japanese Literature
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	ASIAN/ HISTORY 363	China and World War II in Asia
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	ASIAN 403	Southeast Asian Literature
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	ASIAN/ ART HIST 428	Visual Cultures of India
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	ASIAN 563	Readings in Modern Japanese Literature
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	ASIAN AM/ ENGL 270	A Survey of Asian American Literature
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	ATM OCN 100	Weather and Climate
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	ATM OCN 101	Weather and Climate
ANTHRO 339	Archaeology of Warfare and Human Nature	ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
ANTHRO 350	Political Anthropology	ATM OCN/ ENVIR ST 520	Bioclimatology
ANTHRO 357	Introduction to the Anthropology of Japan	ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change
ANTHRO 365	Medical Anthropology	ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	BOTANY 240	Plants and Humans
ANTHRO 606	Ethnicity, Nations, and Nationalism	C&E SOC/ SOC 245	Technology and Society
ART HIST 350	19th Century Painting in Europe	C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
ART HIST 351	20th Century Art in Europe	C&E SOC/SOC/ URB R PL 617	Community Development
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
ART HIST 372	Arts of Japan	COM ARTS 346	Critical Internet Studies
ART HIST 411	Topics in Asian Art (Modern & Contempor)	COM ARTS 350	Introduction to Film
ART HIST 454	Art in Germany, 1900-1945	COM ARTS 352	Film History to 1960
ART HIST 479	Art and History in Africa	COM ARTS 371	Communication and Conflict Resolution
ASIAN 253	Japanese Popular Culture	COM ARTS 372	Rhetoric of Campaigns and Revolutions
ASIAN 300	Topics in Asian Studies (Sexuality in South Asia)	COM ARTS/ RELIG ST 374	The Rhetoric of Religion
ASIAN/ RELIG ST 306	Hinduism	COM ARTS/ ASIAN 443	Indian Cinema and Beyond
		COM ARTS 455	French Film
		COM ARTS 458	Global Media Cultures
		COM ARTS/ ITALIAN 460	Italian Film
		COM ARTS 470	Contemporary Political Discourse
		COM ARTS 557	Contemporary Media Industries
		COM ARTS 577	Dynamics of Online Relationships

COMP LIT 203	Introduction to Cross-Cultural Literary Forms	ENVIR ST/ LAND ARC 361	Wetlands Ecology
CURRIC 292	Globalizing Education	ENVIR ST/ BSE 367	Renewable Energy Systems
CURRIC 366	Internationalizing Educational Knowledge	ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)
DS/ LAND ARC 639	Culture and Built Environment	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)
ECON 330	Money and Banking	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)
ECON 364	Survey of International Economics	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
ECON 370	Economics of Poverty and Inequality	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
ECON 390	Contemporary Economic Issues	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health
ED POL 420	Education in East Asia	ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ED POL 423	Education for Global Change	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ECON 461	International Macroeconomics	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects
ECON 464	International Trade	ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
ECON/ HISTORY 466	The American Economy Since 1865	F&W ECOL 318	Principles of Wildlife Ecology
ECON 467	International Industrial Organizations	F&W ECOL 410	Principles of Silviculture
ECON 475	Economics of Growth	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions
ED POL 150	Education and Public Policy (Human Rights & Education)	FOLKLORE 510	Folklore Theory
ED POL 220	Human Rights and Education	FRENCH 211	French Literary and Interdisciplinary Studies
ED POL 240	Comparative Education	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
ED POL/ INTL ST 335	Globalization and Education	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
ED POL/ ANTHRO 570	Anthropology and Education	FRENCH 322	Modern French and Francophone Literature
ED POL 595	Language Politics and Education	FRENCH 325	Visual Culture in French/ Francophone Studies
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	FRENCH 348	Modernity Studies
ED POL 675	Introduction to Comparative and International Education	FRENCH 449	Francophone Modernity Studies
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	FRENCH 465	French/Francophone Film
ENGL 352	Modernist Poetry	FRENCH 467	Aspects of Contemporary French Literature
ENGL 353	British Literature since 1900	FRENCH 472	French/Francophone Literature and Women
ENGL 453	Topic in British Literature and Culture since 1900	GEN&WS/ ENGL 250	Women in Literature
ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization		
ENGL/ THEATRE 575	British Drama, 1914 to Present		
ENVIR ST/ILS 126	Principles of Environmental Science		
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems		
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts		
ENVIR ST/A A E/ ECON 343	Environmental Economics		
ENVIR ST 349	Climate Change Governance		

GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	GEOSCI/ ENVIR ST 106	Environmental Geology
GEN&WS 420	Women in Cross-Societal Perspective	GEOSCI/ ENVIR ST 411	Energy Resources
GEN&WS 424	Women's International Human Rights	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)
GEN&WS/ URB R PL 644	International Development and Gender	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)
GEOG 101	Introduction to Human Geography	GERMAN 305	Literatur des 20. und 21. Jahrhunderts
GEOG/ ENVIR ST 120	Introduction to the Earth System	GERMAN 325	Topics in Dutch Literature
GEOG/ ENVIR ST 127	Physical Systems of the Environment	GERMAN 362	Topics in German Literature
GEOG/ ENVIR ST 139	Global Environmental Issues	GERMAN 372	Topics in German Culture
GEOG 301	Revolutions and Social Change	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
GEOG 302	Economic Geography: Locational Behavior	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)
GEOG/ URB R PL 305	Introduction to the City	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
GEOG 307	International Migration, Health, and Human Rights	GERMAN/ COM ARTS 655	German Film
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	HISTORY 201	The Historian's Craft (various)
GEOG 318	Introduction to Geopolitics	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)
GEOG/ BOTANY 338	Environmental Biogeography	HISTORY 241	Latin America from 1780 to 1940
GEOG/ ENVIR ST 339	Environmental Conservation	HISTORY/ INTL ST/ LACIS 242	Modern Latin America
GEOG 340	World Regions in Global Context	HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 349	Europe	HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War
GEOG 355	Africa, South of the Sahara	HISTORY/ ASIAN 319	The Vietnam Wars
GEOG 358	Human Geography of Southeast Asia	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	HISTORY 357	The Second World War
GEOG/ URB R PL 506	Historical Geography of European Urbanization	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
GEOG 510	Economic Geography	HISTORY 403	Immigration and Assimilation in American History
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	HISTORY 418	History of Russia
GEOG/ ENVIR ST 537	Culture and Environment	HISTORY 419	History of Soviet Russia
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	HISTORY 420	Russian Social and Intellectual History
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	HISTORY/ LEGAL ST 426	The History of Punishment
GEOSCI/ ATM OCN 105	Survey of Oceanography	HISTORY 434	American Foreign Relations, 1901 to the Present
		HISTORY 441	Revolution and Conflict in Modern Latin America



HISTORY 450	Making of Modern South Asia	INTL ST/ POLI SCI 431	Contentious Politics
HISTORY/ ASIAN 454	Samurai: History and Image	INTL ST/ POLI SCI 434	The Politics of Human Rights
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies
HISTORY 533	Multi-Racial Societies in Latin America	INTL ST/ POLI SCI 439	The Comparative Study of Genocide
HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)	INTL ST 501	Study Abroad Topics in Global Security
HISTORY 607	The American Impact Abroad: The Historical Dimension	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy
HIST SCI/ ENVIR ST 353	History of Ecology	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization
HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II	INTL ST 504	Study Abroad Topics in Global Environment
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	INTL ST 520	Study Abroad Topics in International Studies
HORT 370	World Vegetable Crops	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	INTL ST 601	Topics in Global Security
INTL BUS 200	International Business	INTL ST 602	Topics in Politics and Policy in the Global Economy
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	INTL ST 603	Topics in Culture in the Age of Globalization
INTL BUS 365	Contemporary Topics (International Perspectives)	INTL ST 620	Topics in International Studies
INTL BUS/A A E/ ECON 462	Latin American Economic Development	INTL ST 622	Washington DC Sem in International Affairs Seminar
INTL ST/ AFRICAN 302	Arabic Literature and Cinema	ITALIAN 230	Modern Italian Culture
INTL ST/ GEOG 315	Universal Basic Income: The Politics Behind a Global Movement	ITALIAN 322	Studies in Italian Literature and Culture II
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	ITALIAN/ COM ARTS 460	Italian Film
INTL ST/ ED POL 335	Globalization and Education	JEWISH/ POLI SCI 341	Israeli Politics and Society
INTL ST/ A A E 373	Globalization, Poverty and Development	JEWISH/ LITTRANS 367	Israeli Fiction in Translation
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire	JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education
INTL ST 401	Topics in Global Security	JEWISH/ ENGL 539	Jewish Literatures in Diaspora
INTL ST 402	Topics in Politics and Policy in the Global Economy	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
INTL ST 403	Topics in Culture in the Age of Globalization	JOURN 618	Mass Communication and Political Behavior
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	JOURN 620	International Communication
		JOURN 621	Mass Communication in Developing Nations

L I S 201	The Information Society	MUSIC/ FOLKLORE 402	Musical Cultures of the World
L I S 661	Information Ethics and Policy	MUSIC 416	Survey of Music in the Twentieth Century
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
LEGAL ST 409	Human Rights in Law and Society	PHILOS/ ENVIR ST 441	Environmental Ethics
LEGAL ST/ L I S 663	Introduction to Cyberlaw	PHILOS 555	Political Philosophy
LINGUIS/ ANTHRO 430	Language and Culture	PHILOS 557	Issues in Social Philosophy
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	POLI SCI 320	Governments and Politics of the Middle East and North Africa
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	POLI SCI 321	Latin-American Politics
LITTRANS 220	Chekhov: The Drama of Modern Life	POLI SCI 322	Politics of Southeast Asia
LITTRANS 222	Dostoevsky in Translation	POLI SCI 323	Islam and World Politics
LITTRANS 224	Tolstoy in Translation	POLI SCI 324	Chinese Politics
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
LITTRANS 240	Soviet Literature in Translation	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	POLI SCI 328	Politics of East and Southeast Asia
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	POLI SCI 329	African Politics
LITTRANS/ GEN&WS 270	German Women Writers in Translation	POLI SCI 332	German Politics
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	POLI SCI 334	Russian Politics
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	POLI SCI 340	The European Union: Politics and Political Economy
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	POLI SCI/ JEWISH 341	Israeli Politics and Society
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	POLI SCI 346	China in World Politics
LITTRANS 331	In Translation: Scandinavian Topics in Depth	POLI SCI 347	Terrorism
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	POLI SCI 350	International Political Economy
LITTRANS 373	Topics in Japanese Literature (Evangelion)	POLI SCI 354	International Institutions and World Order
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	POLI SCI 356	Principles of International Law
LITTRANS 473	Polish Literature (in Translation) since 1863	POLI SCI 359	American Foreign Policy
MARKETNG/ INTL BUS 420	Global Marketing Strategy	POLI SCI 363	Literature and Politics
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	POLI SCI 377	Nuclear Weapons and World Politics
		POLI SCI 390	Study Abroad Topics in Political Science: International Relations
		POLI SCI 400	Topics in Political Science (Middle East Politics)
		POLI SCI 401	Selected Topics in Political Science (Global Governance)
		POLI SCI 421	The Challenge of Democratization
		POLI SCI/ INTL ST 431	Contentious Politics
		POLI SCI 432	Comparative Legal Institutions
		POLI SCI/ INTL ST 434	The Politics of Human Rights
		POLI SCI 438	Comparative Political Culture

POLI SCI 460	Topics in Political Philosophy ((Economic Inequality))	SLAVIC 472	History of Polish Literature after 1863
POLI SCI 534	Socialism and Transitions to the Market	SOC 170	Population Problems
POLI SCI 538	Politics and Policies in the European Union	SOC 225	Contemporary Chinese Society
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
POLI SCI 652	The Politics of Development	SOC/ C&E SOC 341	Labor in Global Food Systems
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	SOC 496	Topics in Sociology (Intercultural Dialogues)
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	SOC/ C&E SOC 541	Environmental Stewardship and Social Justice
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	SOC 626	Social Movements
PORTUG/ GEN&WS 450	Brazilian Women Writers	SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
PORTUG 467	Survey of Portuguese Literature since 1825	SOC 632	Sociology of Organizations
PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)	SOC 633	Social Stratification
PSYCH 428	Introduction to Cultural Psychology	SOC 640	Sociology of the Family
RELIG ST/ ANTHRO 343	Anthropology of Religion	SOC 646	Race and Ethnic Relations
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	SOC/ ED POL 648	Sociology of Education
SCAND ST 251	Readings in Norwegian Literature	SOC/ C&E SOC 652	Sociology of Economic Institutions
SCAND ST 261	Readings in Swedish Literature	SOC/ECON 663	Population and Society
SCAND ST 271	Readings in Danish Literature	SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
SCAND ST 427	Contemporary Scandinavian Literature	SPANISH/ LACIS 285	Race and Culture in the Americas
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	SPANISH 324	Survey of Modern Spanish Literature
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	SPANISH 326	Survey of Spanish American Literature
SCAND ST 476	Scandinavian Life and Civilization II	SPANISH/ INTL BUS 329	Spanish for Business
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	SPANISH 361	Spanish Civilization
SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	SPANISH 363	Spanish American Civilization
SLAVIC 242	Literatures and Cultures of Eastern Europe	SPANISH 453	Literature of the Twentieth Century
SLAVIC 321	Fourth Year Russian I	SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SLAVIC 322	Fourth Year Russian II	SPANISH 461	The Spanish American Short Story
SLAVIC 405	Women in Russian Literature	SPANISH 462	Spanish American Theater and Drama
SLAVIC 420	Chekhov	SPANISH 464	Spanish American Poetry and Essay
SLAVIC 434	Contemporary Russian Culture	SPANISH 468	Topics in Hispanic Culture (Documentary Film)
SLAVIC 440	Soviet Literature	SPANISH 479	Latin American Literature and Human Rights
SLAVIC 449	History of Serbo-Croatian Literature	THEATRE 327	History of Costume for the Stage
SLAVIC 454	Modern Serbo-Croatian Literature	THEATRE 351	Fundamentals of Asian Stage Discipline

THEATRE 424	Contemporary World Theatre and Dramatic Literature
THEATRE 522	Experimental Drama: The Theatre of Europe 1850–the Present
THEATRE 526	The Theatres of China and Japan
THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
ZOOLOGY/ ENVIR ST 315	Limnology–Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology–Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology

C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
GEOG 307	International Migration, Health, and Human Rights
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society
HISTORY/ LEGAL ST 426	The History of Punishment
HISTORY 434	American Foreign Relations, 1901 to the Present
INTL ST 401	Topics in Global Security
INTL ST/ POLI SCI 431	Contentious Politics
INTL ST 601	Topics in Global Security
PHILOS 555	Political Philosophy
PHILOS 557	Issues in Social Philosophy
POLI SCI 343	Theories of International Security
POLI SCI 354	International Institutions and World Order
POLI SCI 359	American Foreign Policy
POLI SCI 377	Nuclear Weapons and World Politics
POLI SCI 421	The Challenge of Democratization
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
SOC 496	Topics in Sociology (Asylum and Refugees)
SOC 626	Social Movements

## INTERNATIONAL STUDIES: GLOBAL SECURITY

### REQUIREMENTS

### GLOBAL SECURITY OPTION

In this option, majors explore conditions that challenge the ability of people and societies to survive. Students consider the causes of and solutions to political crises and violent conflicts in interstate, transnational, and domestic settings. Using historical and regional approaches, students develop a better understanding of the dilemmas the state and the global community face when confronted by threats to human rights, peace, and stability.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Global Security Option:

### GLOBAL SECURITY OPTION CORE

Code	Title	Credits
<b>Complete two courses:</b>		
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	

### GLOBAL SECURITY OPTION ISSUES

Code	Title	Credits
<b>15 credits from:</b>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 477	Agricultural and Economic Development in Africa	
ANTHRO 330	Topics in Ethnology	
ANTHRO 365	Medical Anthropology	
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	
ANTHRO 606	Ethnicity, Nations, and Nationalism	
ASIAN 300	Topics in Asian Studies (Gender and Sexuality)	
ASIAN/ HISTORY 363	China and World War II in Asia	
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	

ASIAN 630	Proseminar: Studies in Cultures of Asia	GEOG 475	Topics in Geography (International Migration, Health, and Human Rights)
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	GEOG/ URB R PL 506	Historical Geography of European Urbanization
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration	GEOSCI/ ENVIR ST 411	Energy Resources
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	HISTORY 201	The Historian's Craft (History of Humanitarianism)
COM ARTS 371	Communication and Conflict Resolution	HISTORY 201	The Historian's Craft (WWII Eastern Europe)
COM ARTS 372	Rhetoric of Campaigns and Revolutions	HISTORY 201	The Historian's Craft (Dems & Dictators in Spain & Italy)
COM ARTS 470	Contemporary Political Discourse	HISTORY 201	The Historian's Craft (WW II Eastern Front)
COM ARTS 573	Rhetoric of Globalization and Transnationalism	HISTORY 201	The Historian's Craft (Shanghai)
ECON 467	International Industrial Organizations	HISTORY 201	The Historian's Craft (End of Empire: Occupation and Post-War)
ED POL 150	Education and Public Policy (Human Rights & Education)	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)
ED POL 220	Human Rights and Education	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)
ED POL 240	Comparative Education	HISTORY 223	Explorations in European History (H) (War, Religion, & Race)
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	HISTORY/ ASIAN 319	The Vietnam Wars
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	HISTORY 357	The Second World War
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	HISTORY 418	History of Russia
GEN&WS 424	Women's International Human Rights	HISTORY 419	History of Soviet Russia
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	HISTORY/ LEGAL ST 426	The History of Punishment
GEOG/ ENVIR ST 139	Global Environmental Issues	HISTORY 434	American Foreign Relations, 1901 to the Present
GEOG 307	International Migration, Health, and Human Rights	HISTORY 441	Revolution and Conflict in Modern Latin America
GEOG 318	Introduction to Geopolitics	HISTORY 450	Making of Modern South Asia
GEOG/ ENVIR ST 339	Environmental Conservation	HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia
GEOG 340	World Regions in Global Context	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
GEOG 349	Europe	HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)
GEOG 355	Africa, South of the Sahara	HISTORY 607	The American Impact Abroad: The Historical Dimension
GEOG 358	Human Geography of Southeast Asia	HIST SCI/ ENVIR ST 353	History of Ecology
		HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II

HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	POLI SCI 340	The European Union: Politics and Political Economy
INTL BUS/A A E/ ECON 462	Latin American Economic Development	POLI SCI 343	Theories of International Security
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	POLI SCI 345	Conflict Resolution
INTL ST/ ED POL 335	Globalization and Education	POLI SCI 346	China in World Politics
INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire	POLI SCI 347	Terrorism
INTL ST 401	Topics in Global Security	POLI SCI 348	Analysis of International Relations
INTL ST/ POLI SCI 431	Contentious Politics	POLI SCI 354	International Institutions and World Order
INTL ST/ POLI SCI 434	The Politics of Human Rights	POLI SCI 356	Principles of International Law
INTL ST 501	Study Abroad Topics in Global Security	POLI SCI 359	American Foreign Policy
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	POLI SCI 377	Nuclear Weapons and World Politics
INTL ST 601	Topics in Global Security	POLI SCI 401	Selected Topics in Political Science (Global Governance)
INTL ST 622	Washington DC Sem in International Affairs Seminar	POLI SCI 401	Selected Topics in Political Science (Nationalism & Ethnic Conflict)
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	POLI SCI 401	Selected Topics in Political Science (Global Access to Justice)
JOURN 618	Mass Communication and Political Behavior	POLI SCI 401	Selected Topics in Political Science (Authoritarianism)
JOURN 621	Mass Communication in Developing Nations	POLI SCI 421	The Challenge of Democratization
LEGAL ST 409	Human Rights in Law and Society	POLI SCI 432	Comparative Legal Institutions
LEGAL ST/ L I S 663	Introduction to Cyberlaw	POLI SCI 438	Comparative Political Culture
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust in Poland)	POLI SCI/ INTL ST 439	The Comparative Study of Genocide
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants & Refugees)	POLI SCI 455	African International Relations
LITTRANS 326	Topics in Dutch Literature in Translation (Occupation, Holocaust, Memory in Dutch Literature)	POLI SCI 529	Arab-Israeli Conflict
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)
PHILOS/ ENVIR ST 441	Environmental Ethics	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
PHILOS 555	Political Philosophy	SOC 225	Contemporary Chinese Society
PHILOS 557	Issues in Social Philosophy	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
POLI SCI 323	Islam and World Politics	SOC 626	Social Movements
POLI SCI 324	Chinese Politics	SOC/ECON 663	Population and Society
POLI SCI 334	Russian Politics	SPANISH 460	Literatura Hispanoamericana (Human Rights: Argentina/Chile)
		SPANISH 468	Topics in Hispanic Culture (Topic: Human Rights Culture in Argentina and Chile)
		SPANISH 479	Latin American Literature and Human Rights

## ELECTIVES

Elective credits to attain the required 35 total credits in the major. These courses can come from Issues lists for different options or they can be additional Issues classes within their own option. Choose from:

Code	Title	Credits
A A E/ ENVIR ST 244	The Environment and the Global Economy	

A A E 319	The International Agricultural Economy	AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey
A A E/ECON 421	Economic Decision Analysis	AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction
A A E/ECON 473	Economic Growth and Development in Southeast Asia	AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas
A A E/ECON 474	Economic Problems of Developing Areas	AFROAMER/ HISTORY 347	The Caribbean and its Diasporas
A A E/ECON 477	Agricultural and Economic Development in Africa	AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	ANTHRO 300	Cultural Anthropology: Theory and Ethnography
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	ANTHRO 322	The Origins of Civilization
AFRICAN 230	Introduction to Yoruba Life and Culture	ANTHRO 330	Topics in Ethnology
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	ANTHRO 339	Archaeology of Warfare and Human Nature
AFRICAN 300	African Literature in Translation	ANTHRO 350	Political Anthropology
AFRICAN 300	African Literature in Translation	ANTHRO 357	Introduction to the Anthropology of Japan
AFRICAN 300	African Literature in Translation (African Coming of Age Stories)	ANTHRO 365	Medical Anthropology
AFRICAN 303	African Literature and Visual Culture	ANTHRO 490	Undergraduate Seminar
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	ANTHRO 606	Ethnicity, Nations, and Nationalism
AFRICAN 403	Theories of African Cultural Studies	ART HIST 350	19th Century Painting in Europe
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	ART HIST 351	20th Century Art in Europe
AFRICAN 412	Contemporary African Fiction	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	ART HIST 372	Arts of Japan
AFRICAN/ FRENCH 440	African/Francophone Film	ART HIST/ RELIG ST 373	Great Cities of Islam
AFRICAN/ PORTUG 451	Lusophone African Literature	ART HIST 411	Topics in Asian Art
AFRICAN 453	Modern African Literature in English	ART HIST 454	Art in Germany, 1900-1945
AFRICAN 500	Language and Society in Africa	ART HIST 479	Art and History in Africa
AFRICAN 609	Advanced Topics in Global Black Music Studies	ART HIST 510	Proseminar in Islamic Art and Architecture
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	ASIAN 253	Japanese Popular Culture
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	ASIAN 253	Japanese Popular Culture
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	ASIAN 300	Topics in Asian Studies (Indian Traditions Modern Age)
		ASIAN 301	Social Studies Topics in East Asian Studies (Two Koreas)
		ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method
		ASIAN 311	Modern Indian Literatures
		ASIAN 352	Survey of Modern Chinese Literature

ASIAN 357	Japanese Ghost Stories	COM ARTS 371	Communication and Conflict Resolution
ASIAN 355	Modern Japanese Literature	COM ARTS 372	Rhetoric of Campaigns and Revolutions
ASIAN 361	Love and Politics: The Tale of Genji	COM ARTS 372	Rhetoric of Campaigns and Revolutions
ASIAN 371	Topics in Chinese Literature	COM ARTS/ RELIG ST 374	The Rhetoric of Religion
ASIAN 374		COM ARTS 455	French Film
ASIAN 375	Survey of Chinese Film	COM ARTS 458	Global Media Cultures
ASIAN 376	Manga	COM ARTS/ ITALIAN 460	Italian Film
ASIAN 378	Anime	COM ARTS 470	Contemporary Political Discourse
ASIAN/ ART HIST 379	Cities of Asia	COM ARTS 557	Contemporary Media Industries
ASIAN 403	Southeast Asian Literature	COM ARTS 577	Dynamics of Online Relationships
ASIAN/ ART HIST 428	Visual Cultures of India	COMP LIT 203	Introduction to Cross-Cultural Literary Forms
ASIAN 433	Topics in East Asian Visual Cultures	CURRIC 292	Globalizing Education
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	CURRIC 366	Internationalizing Educational Knowledge
ASIAN 563	Readings in Modern Japanese Literature	DS/ LAND ARC 639	Culture and Built Environment
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	ECON 330	Money and Banking
ASIAN 630	Proseminar: Studies in Cultures of Asia	ECON 364	Survey of International Economics
ASIAN 630	Proseminar: Studies in Cultures of Asia	ECON 370	Economics of Poverty and Inequality
ASIAN 655	Ethnography in Asia	ECON 390	Contemporary Economic Issues
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	ECON 461	International Macroeconomics
ATM OCN 100	Weather and Climate	ECON 464	International Trade
ATM OCN 101	Weather and Climate	ECON/ HISTORY 466	The American Economy Since 1865
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems	ECON 467	International Industrial Organizations
ATM OCN/ ENVIR ST 520	Bioclimatology	ECON 475	Economics of Growth
ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change	ED POL 150	Education and Public Policy (Human Rights & Education)
ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution	ED POL 240	Comparative Education
BOTANY 240	Plants and Humans	ED POL/ INTL ST 335	Globalization and Education
C&E SOC/ SOC 245	Technology and Society	ED POL 420	Education in East Asia
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	ED POL 423	Education for Global Change
C&E SOC/SOC/ URB R PL 617	Community Development	ED POL/ ANTHRO 570	Anthropology and Education
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration	ED POL 595	Language Politics and Education
COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)	ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK
COM ARTS 346	Critical Internet Studies	ED POL 675	Introduction to Comparative and International Education
COM ARTS 350	Introduction to Film	ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies
COM ARTS 352	Film History to 1960	ENGL 174	Literature and Social Justice
		ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings
		ENGL 352	Modernist Poetry
		ENGL 353	British Literature since 1900



ENGL 453	Topic in British Literature and Culture since 1900	FOLKLORE 510	Folklore Theory
ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization	FRENCH 211	French Literary and Interdisciplinary Studies
ENGL/ ENVIR ST 533	Topic in Literature and the Environment	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
ENGL/ THEATRE 575	British Drama, 1914 to Present	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
ENVIR ST/ILS 126	Principles of Environmental Science	FRENCH 322	Modern French and Francophone Literature
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	FRENCH 325	Visual Culture in French/ Francophone Studies
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	FRENCH 348	Modernity Studies
ENVIR ST/A A E/ ECON 343	Environmental Economics	FRENCH 449	Francophone Modernity Studies
ENVIR ST 349	Climate Change Governance	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
ENVIR ST/ LAND ARC 361	Wetlands Ecology	FRENCH 465	French/Francophone Film
ENVIR ST/ BSE 367	Renewable Energy Systems	FRENCH 467	Aspects of Contemporary French Literature
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)	FRENCH 472	French/Francophone Literature and Women
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Conserving Biodiversity)	GEN&WS/ ENGL 250	Women in Literature
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)	GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	GEN&WS 420	Women in Cross-Societal Perspective
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	GEN&WS 424	Women's International Human Rights
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	GEN&WS/ URB R PL 644	International Development and Gender
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	GEOG 101	Introduction to Human Geography
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics	GEOG/ ENVIR ST 120	Introduction to the Earth System
F&W ECOL 318	Principles of Wildlife Ecology	GEOG/ ENVIR ST 127	Physical Systems of the Environment
F&W ECOL 375	Special Topics	GEOG/ ENVIR ST 139	Global Environmental Issues
F&W ECOL 375	Special Topics	GEOG 301	Revolutions and Social Change
F&W ECOL 410	Principles of Silviculture	GEOG/ URB R PL 305	Introduction to the City
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity
		GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement
		GEOG 318	Introduction to Geopolitics

GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	GERMAN 372	Topics in German Culture (Deutscher Film)
GEOG/ BOTANY 338	Environmental Biogeography	GERMAN 372	Topics in German Culture (Theater auf Deutsch)
GEOG/ ENVIR ST 339	Environmental Conservation	GERMAN 372	Topics in German Culture (Green Germany)
GEOG 340	World Regions in Global Context	GERMAN 372	Topics in German Culture (China- German Point of View)
GEOG 349	Europe	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
GEOG 355	Africa, South of the Sahara	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)
GEOG 358	Human Geography of Southeast Asia	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	GERMAN/ COM ARTS 655	German Film
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	HISTORY 201	The Historian's Craft (various)
GEOG 475	Topics in Geography	HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)
GEOG/ URB R PL 506	Historical Geography of European Urbanization	HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)
GEOG 510	Economic Geography	HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	HISTORY 223	Explorations in European History (H) (Cold War in European Culture)
GEOG/ ENVIR ST 537	Culture and Environment	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (South Asians in Diaspora)
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Pan-Asianism)
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	HISTORY 241	Latin America from 1780 to 1940
GEOSCI/ ATM OCN 105	Survey of Oceanography	HISTORY/ INTL ST/ LACIS 242	Modern Latin America
GEOSCI/ ENVIR ST 106	Environmental Geology	HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOSCI/ ENVIR ST 411	Energy Resources	HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War
GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)	HISTORY/ ASIAN 319	The Vietnam Wars
GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century
GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)	HISTORY/ AFROAMER 347	The Caribbean and its Diasporas
GERMAN 278	Topics in German Culture (Culture in 20th Century)	HISTORY 357	The Second World War
GERMAN 305	Literatur des 20. und 21. Jahrhunderts	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe
GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)	HISTORY 403	Immigration and Assimilation in American History
GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)	HISTORY 418	History of Russia
GERMAN 362	Topics in German Literature (Musik)	HISTORY 419	History of Soviet Russia
GERMAN 362	Topics in German Literature (Migration in deutscher)	HISTORY 420	Russian Social and Intellectual History
GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)	HISTORY/ LEGAL ST 426	The History of Punishment
GERMAN 372	Topics in German Culture (Oesterreich)		

HISTORY 434	American Foreign Relations, 1901 to the Present	INTL ST/ POLI SCI 434	The Politics of Human Rights
HISTORY 441	Revolution and Conflict in Modern Latin America	INTL ST/ POLI SCI 439	The Comparative Study of Genocide
HISTORY 450	Making of Modern South Asia	INTL ST 501	Study Abroad Topics in Global Security
HISTORY/ ASIAN 454	Samurai: History and Image	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization
HISTORY 533	Multi-Racial Societies in Latin America	INTL ST 504	Study Abroad Topics in Global Environment
HISTORY 600	Advanced Seminar in History (Global Religious Revivals)	INTL ST 520	Study Abroad Topics in International Studies
HISTORY 607	The American Impact Abroad: The Historical Dimension	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
HIST SCI/ ENVIR ST 353	History of Ecology	INTL ST 601	Topics in Global Security
HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II	INTL ST 602	Topics in Politics and Policy in the Global Economy
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	INTL ST 603	Topics in Culture in the Age of Globalization
HORT 370	World Vegetable Crops	INTL ST 620	Topics in International Studies
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)	INTL ST 622	Washington DC Sem in International Affairs Seminar
INTL BUS 200	International Business	ITALIAN 230	Modern Italian Culture
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	ITALIAN 322	Studies in Italian Literature and Culture II
INTL BUS 365	Contemporary Topics (International Perspectives)	ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)
INTL BUS/A A E/ ECON 462	Latin American Economic Development	ITALIAN 450	Special Topics in Italian Literature (From Text to Stage)
INTL ST/ AFRICAN 302	Arabic Literature and Cinema	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)
INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	ITALIAN/ COM ARTS 460	Italian Film
INTL ST/ ED POL 335	Globalization and Education	JEWISH/ POLI SCI 341	Israeli Politics and Society
INTL ST/ A A E 373	Globalization, Poverty and Development	JEWISH/ LITTRANS 367	Israeli Fiction in Translation
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
INTL ST 401	Topics in Global Security	JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education
INTL ST 402	Topics in Politics and Policy in the Global Economy	JEWISH/ ENGL 539	Jewish Literatures in Diaspora
INTL ST 403	Topics in Culture in the Age of Globalization	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
INTL ST/ POLI SCI 423	Social Mobilization in Latin America	JOURN 618	Mass Communication and Political Behavior
INTL ST/ POLI SCI 431	Contentious Politics	JOURN 620	International Communication

JOURN 621	Mass Communication in Developing Nations	LITTRANS 368	Modern Japanese Fiction
L I S 201	The Information Society	LITTRANS 373	Topics in Japanese Literature (Evangelion)
L I S 661	Information Ethics and Policy	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	LITTRANS 373	Topics in Japanese Literature (Writing the Environment)
LEGAL ST 409	Human Rights in Law and Society	LITTRANS 455	Modern Serbian and Croatian Literature in Translation
LEGAL ST/ L I S 663	Introduction to Cyberlaw	LITTRANS 473	Polish Literature (in Translation) since 1863
LINGUIS/ ANTHRO 430	Language and Culture	MARKETNG/ INTL BUS 420	Global Marketing Strategy
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	MUSIC/ FOLKLORE 402	Musical Cultures of the World
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	MUSIC 416	Survey of Music in the Twentieth Century
LITTRANS 220	Chekhov: The Drama of Modern Life	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	PHILOS/ ENVIR ST 441	Environmental Ethics
LITTRANS 222	Dostoevsky in Translation	PHILOS 555	Political Philosophy
LITTRANS 224	Tolstoy in Translation	PHILOS 557	Issues in Social Philosophy
LITTRANS 224	Tolstoy in Translation	PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	POLI SCI 320	Governments and Politics of the Middle East and North Africa
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	POLI SCI 323	Islam and World Politics
LITTRANS 240	Soviet Literature in Translation	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)	POLI SCI 328	Politics of East and Southeast Asia
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	POLI SCI 332	German Politics
LITTRANS/ GEN&WS 270	German Women Writers in Translation	POLI SCI 334	Russian Politics
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	POLI SCI 340	The European Union: Politics and Political Economy
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s (Global Migrants and Refugees)	POLI SCI/ JEWISH 341	Israeli Politics and Society
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)	POLI SCI 346	China in World Politics
LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)	POLI SCI 347	Terrorism
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	POLI SCI 348	Analysis of International Relations
LITTRANS 331	In Translation: Scandinavian Topics in Depth	POLI SCI 350	International Political Economy
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	POLI SCI 354	International Institutions and World Order
		POLI SCI 356	Principles of International Law
		POLI SCI 359	American Foreign Policy
		POLI SCI 363	Literature and Politics
		POLI SCI 377	Nuclear Weapons and World Politics
		POLI SCI 390	Study Abroad Topics in Political Science: International Relations

POLI SCI 400	Topics in Political Science (Middle East Politics)	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
POLI SCI 401	Selected Topics in Political Science (Global Governance)	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
POLI SCI/ INTL ST 431	Contentious Politics	SLAVIC 242	Literatures and Cultures of Eastern Europe
POLI SCI 432	Comparative Legal Institutions	SLAVIC 321	Fourth Year Russian I
POLI SCI/ INTL ST 434	The Politics of Human Rights	SLAVIC 322	Fourth Year Russian II
POLI SCI 438	Comparative Political Culture	SLAVIC 405	Women in Russian Literature
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	SLAVIC 420	Chekhov
POLI SCI 455	African International Relations	SLAVIC 433	History of Russian Culture
POLI SCI 529	Arab-Israeli Conflict	SLAVIC 434	Contemporary Russian Culture
POLI SCI 538	Politics and Policies in the European Union	SLAVIC 440	Soviet Literature
POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)	SLAVIC 449	History of Serbo-Croatian Literature
POLI SCI 652	The Politics of Development	SLAVIC 454	Modern Serbo-Croatian Literature
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	SLAVIC 472	History of Polish Literature after 1863
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)	SOC 170	Population Problems
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	SOC 225	Contemporary Chinese Society
PORTUG/ GEN&WS 450	Brazilian Women Writers	SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society
PORTUG 467	Survey of Portuguese Literature since 1825	SOC/ C&E SOC 341	Labor in Global Food Systems
PORTUG 640	Topics in Luso-Brazilian Literature	SOC 496	Topics in Sociology (Intercultural Dialogues)
PSYCH 428	Introduction to Cultural Psychology	SOC 496	Topics in Sociology (The Soviet Jewish Experience)
RELIG ST/ ANTHRO 343	Anthropology of Religion	SOC/ C&E SOC 541	Environmental Stewardship and Social Justice
RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)	SOC 626	Social Movements
RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)	SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
SCAND ST 251	Readings in Norwegian Literature	SOC 632	Sociology of Organizations
SCAND ST 261	Readings in Swedish Literature	SOC 633	Social Stratification
SCAND ST 271	Readings in Danish Literature	SOC 640	Sociology of the Family
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	SOC 646	Race and Ethnic Relations
SCAND ST 427	Contemporary Scandinavian Literature	SOC/ ED POL 648	Sociology of Education
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	SOC/ C&E SOC 652	Sociology of Economic Institutions
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	SOC/ECON 663	Population and Society
SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)	SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
SCAND ST 476	Scandinavian Life and Civilization II	SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality
SCAND ST 520	Special Topics (Humor and Noir)	SPANISH/ LACIS 285	Race and Culture in the Americas
		SPANISH 324	Survey of Modern Spanish Literature
		SPANISH 326	Survey of Spanish American Literature

SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 468	Topics in Hispanic Culture (Documentary Film)
SPANISH 468	Topics in Hispanic Culture (Minds and Machines)
SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)
SPANISH 477	Latin American Rock Cultures
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
THEATRE 327	History of Costume for the Stage
THEATRE 351	Fundamentals of Asian Stage Discipline
THEATRE 424	Contemporary World Theatre and Dramatic Literature
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
THEATRE 526	The Theatres of China and Japan
THEATRE/ SLAVIC 532	History of Russian Theatre
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology

## INTERNATIONAL STUDIES: POLITICS AND POLICY IN THE GLOBAL ECONOMY

### REQUIREMENTS

## POLITICS AND POLICY IN THE GLOBAL ECONOMY OPTION REQUIREMENTS

This option offers a multidisciplinary survey of international economic and political institutions and transactions, as well as the policy issues pertaining to international commerce and trade, international finance and monetary relations, international macroeconomic policy coordination, U.S. trade imbalances, aid and development, and related environmental and natural resource problems.

In addition to the Common Requirements of the International Studies major, complete these requirements specific to the Politics and Policy in the Global Economy Option:

## POLITICS AND POLICY IN THE GLOBAL ECONOMY CORE

Code	Title	Credits
<b>Complete two:</b>		<b>6</b>
A A E 319	The International Agricultural Economy	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
ECON 364	Survey of International Economics	
ECON 464	International Trade	
ECON 475	Economics of Growth	
GEN&WS/ URB R PL 644	International Development and Gender	
GEOG 302	Economic Geography: Locational Behavior	
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	
GEOG 510	Economic Geography	
INTL ST/ GEOG 311	The Global Game: Soccer, Politics, and Identity	
INTL ST/ A A E 373	Globalization, Poverty and Development	
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy	
INTL ST 402	Topics in Politics and Policy in the Global Economy	
INTL ST 602	Topics in Politics and Policy in the Global Economy	

POLI SCI 538	Politics and Policies in the European Union
POLI SCI 652	The Politics of Development
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
SOC/ C&E SOC 652	Sociology of Economic Institutions
URB R PL/ GEN&WS 644	International Development and Gender

## POLITICS AND POLICY IN THE GLOBAL ECONOMY ISSUES

Code	Title	Credits
<b>15 credits from:</b>		<b>15</b>
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
ANTHRO 330	Topics in Ethnology (Culture/Health in Africa)	
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	
C&E SOC/SOC/ URB R PL 617	Community Development	
CHICLA/ POLI SCI 302	Mexican-American Politics	
COM ARTS 372	Rhetoric of Campaigns and Revolutions	
COM ARTS 470	Contemporary Political Discourse	
CURRIC 292	Globalizing Education	
CURRIC 366	Internationalizing Educational Knowledge	
ECON 330	Money and Banking	

ECON 364	Survey of International Economics
ECON 370	Economics of Poverty and Inequality
ECON 370	Economics of Poverty and Inequality
ECON 390	Contemporary Economic Issues (Poverty, Inequality, & Public Policy)
ECON 390	Contemporary Economic Issues (The Chinese Economy)
ECON 461	International Macroeconomics
ECON 464	International Trade
ECON 467	International Industrial Organizations
ECON 475	Economics of Growth
ECON 666	Issues in International Finance
ED POL 150	Education and Public Policy
ED POL 220	Human Rights and Education
ED POL 240	Comparative Education
ED POL/ INTL ST 335	Globalization and Education
ED POL 420	Education in East Asia
ED POL 423	Education for Global Change
ED POL 595	Language Politics and Education
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK
ED POL 675	Introduction to Comparative and International Education
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems
ENVIR ST 349	Climate Change Governance
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainable Science)
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability, Science, Technology, and Policy)
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects
ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
F&W ECOL 375	Special Topics
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)

GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
GEN&WS/ URB R PL 644	International Development and Gender	INTL ST/ ED POL 335	Globalization and Education
GEOG/ ENVIR ST 139	Global Environmental Issues	INTL ST/ A A E 373	Globalization, Poverty and Development
GEOG 302	Economic Geography: Locational Behavior	INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
GEOG 307	International Migration, Health, and Human Rights	INTL ST 402	Topics in Politics and Policy in the Global Economy
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy
GEOG 318	Introduction to Geopolitics	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights
GEOG/ ENVIR ST 339	Environmental Conservation	INTL ST 602	Topics in Politics and Policy in the Global Economy
GEOG 340	World Regions in Global Context	INTL ST 622	Washington DC Sem in International Affairs Seminar
GEOG 349	Europe	JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
GEOG 355	Africa, South of the Sahara	JOURN 618	Mass Communication and Political Behavior
GEOG 358	Human Geography of Southeast Asia	JOURN 620	International Communication
GEOG 475	Topics in Geography (International Migration & Health)	JOURN 621	Mass Communication in Developing Nations
GEOG/ URB R PL 506	Historical Geography of European Urbanization	L I S 661	Information Ethics and Policy
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	LEGAL ST/ L I S 663	Introduction to Cyberlaw
GEOSCI/ ENVIR ST 411	Energy Resources	MARKETNG/ INTL BUS 420	Global Marketing Strategy
HISTORY 201	The Historian's Craft (Shanghai Life and Crime)	NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health
HISTORY 201	The Historian's Craft (US-Latin Amer Relations)	PHILOS/ ENVIR ST 441	Environmental Ethics
HISTORY/ ASIAN 335	The Koreans: Korean War to the 21st Century	PHILOS 555	Political Philosophy
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	POLI SCI 320	Governments and Politics of the Middle East and North Africa
HISTORY 419	History of Soviet Russia	POLI SCI 321	Latin-American Politics
HISTORY 441	Revolution and Conflict in Modern Latin America	POLI SCI 322	Politics of Southeast Asia
HISTORY 450	Making of Modern South Asia	POLI SCI 323	Islam and World Politics
HISTORY 607	The American Impact Abroad: The Historical Dimension	POLI SCI 324	Chinese Politics
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
ILS 371	Interdisciplinary Studies in the Arts and Humanities (Poli Econ & Liberal)	POLI SCI 328	Politics of East and Southeast Asia
INTL BUS 200	International Business	POLI SCI 329	African Politics
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	POLI SCI 332	German Politics
INTL BUS 365	Contemporary Topics (International Perspectives)	POLI SCI 334	Russian Politics
INTL BUS/ M H R 403	Global Issues in Management	POLI SCI 340	The European Union: Politics and Political Economy
INTL BUS/A A E/ ECON 462	Latin American Economic Development	POLI SCI 350	International Political Economy
		POLI SCI 356	Principles of International Law
		POLI SCI 377	Nuclear Weapons and World Politics



POLI SCI 400	Topics in Political Science (Middle East Politics)
POLI SCI 401	Selected Topics in Political Science (Global Governance)
POLI SCI 401	Selected Topics in Political Science
POLI SCI 401	Selected Topics in Political Science (Political Economy)
POLI SCI 421	The Challenge of Democratization
POLI SCI 432	Comparative Legal Institutions
POLI SCI/ INTL ST 434	The Politics of Human Rights
POLI SCI 438	Comparative Political Culture
POLI SCI 460	Topics in Political Philosophy (Economic Inequality)
POLI SCI 460	Topics in Political Philosophy (Economy, Politics, Society)
POLI SCI 534	Socialism and Transitions to the Market
POLI SCI 652	The Politics of Development
POLI SCI 659	Politics and Society: Contemporary Eastern Europe
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Pol Sci: CmpartvPo)
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Comparative Politics)
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History
SOC 225	Contemporary Chinese Society
SOC/ C&E SOC 341	Labor in Global Food Systems
SOC 626	Social Movements
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
SOC 632	Sociology of Organizations
SOC 633	Social Stratification
SOC/ C&E SOC 652	Sociology of Economic Institutions
SOC/ECON 663	Population and Society
SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 479	Latin American Literature and Human Rights
URB R PL/ECON/ REAL EST 641	Housing Economics and Policy

**Total Credits****15****ELECTIVES**

To complete the 35 credits required for the major, additional courses may be necessary. These courses can be additional Issues courses within the major option, or Issues courses from the other major options.

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<i>Approved Elective courses:</i>		
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E 319	The International Agricultural Economy	
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
A A E/ECON 421	Economic Decision Analysis	
A A E/ECON 473	Economic Growth and Development in Southeast Asia	
A A E/ECON 474	Economic Problems of Developing Areas	
A A E/ECON 477	Agricultural and Economic Development in Africa	
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	
A A E/CIV ENGR/ ENVIR ST/ URB R PL 561	Energy Markets	
AFRICAN 230	Introduction to Yoruba Life and Culture	
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	
AFRICAN 300	African Literature in Translation	
AFRICAN 303	African Literature and Visual Culture	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 405	Topics in African Cultural Studies (The Problem of Whiteness)	
AFRICAN 412	Contemporary African Fiction	
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	
AFRICAN/ FRENCH 440	African/Francophone Film	
AFRICAN/ PORTUG 451	Lusophone African Literature	
AFRICAN 453	Modern African Literature in English	
AFRICAN 500	Language and Society in Africa	
AFRICAN 609	Advanced Topics in Global Black Music Studies	
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	
AFROAMER/ ANTHRO/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	

AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	ASIAN 371	Topics in Chinese Literature
AFROAMER/ AFRICAN/ ANTHRO/ GEOG/HISTORY/ POLI SCI/ SOC 277	Africa: An Introductory Survey	ASIAN 374	
AFROAMER/ AFRICAN/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	ASIAN 375	Survey of Chinese Film
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	ASIAN 376	Manga
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	ASIAN 378	Anime
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	ASIAN/ ART HIST 379	Cities of Asia
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	ASIAN/ ART HIST 428	Visual Cultures of India
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	ASIAN/ HISTORY 458	History of Southeast Asia Since 1800
ANTHRO 322	The Origins of Civilization	ASIAN 563	Readings in Modern Japanese Literature
ANTHRO 330	Topics in Ethnology (SE Asia)	ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces
ANTHRO 350	Political Anthropology	ASIAN 630	Proseminar: Studies in Cultures of Asia (Queer Asia)
ANTHRO 357	Introduction to the Anthropology of Japan	ASIAN 655	Ethnography in Asia
ANTHRO 365	Medical Anthropology	ASIALANG 677	Advanced Readings in Tibetan
ANTHRO 490	Undergraduate Seminar (Culture and Health in Africa)	ASIAN 355	Modern Japanese Literature
ANTHRO 606	Ethnicity, Nations, and Nationalism	ASIAN 403	Southeast Asian Literature
ART HIST 350	19th Century Painting in Europe	ASIAN AM/ ENGL 270	A Survey of Asian American Literature
ART HIST 351	20th Century Art in Europe	ATM OCN 100	Weather and Climate
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	ATM OCN 101	Weather and Climate
ART HIST 372	Arts of Japan	ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems
ART HIST/ RELIG ST 373	Great Cities of Islam	ATM OCN/ ENVIR ST 520	Bioclimatology
ART HIST 411	Topics in Asian Art	ATM OCN/ ENVIR ST/ GEOG 528	Past Climates and Climatic Change
ART HIST 454	Art in Germany, 1900-1945	ATM OCN/ ENVIR ST 535	Atmospheric Dispersion and Air Pollution
ART HIST 479	Art and History in Africa	BOTANY 240	Plants and Humans
ART HIST 510	Proseminar in Islamic Art and Architecture	C&E SOC/ SOC 245	Technology and Society
ASIAN 253	Japanese Popular Culture	C&E SOC/ ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability
ASIAN 300	Topics in Asian Studies (Indian Traditions Modern Age)	C&E SOC/SOC/ URB R PL 617	Community Development
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
ASIAN 311	Modern Indian Literatures	COM ARTS 310	Topics in Rhetoric and Communication Science (Intercultural Comm & Rhetoric)
ASIAN 352	Survey of Modern Chinese Literature	COM ARTS 346	Critical Internet Studies
ASIAN 357	Japanese Ghost Stories	COM ARTS 350	Introduction to Film
ASIAN 361	Love and Politics: The Tale of Genji	COM ARTS 352	Film History to 1960
ASIAN/ HISTORY 363	China and World War II in Asia	COM ARTS 371	Communication and Conflict Resolution
		COM ARTS 372	Rhetoric of Campaigns and Revolutions
		COM ARTS/ RELIG ST 374	The Rhetoric of Religion

COM ARTS 455	French Film	ENVIR ST/A A E/ ECON 343	Environmental Economics
COM ARTS 458	Global Media Cultures	ENVIR ST/ LAND ARC 361	Wetlands Ecology
COM ARTS/ ITALIAN 460	Italian Film	ENVIR ST/ BSE 367	Renewable Energy Systems
COM ARTS 470	Contemporary Political Discourse	ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Food Systems, Sustainability, and Climate Change)
COM ARTS 557	Contemporary Media Industries	ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St (Conserving Biodiversity)
COM ARTS 577	Dynamics of Online Relationships	ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences (Sustainability Science)
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (People,Environment)
CURRIC 292	Globalizing Education	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
CURRIC 366	Internationalizing Educational Knowledge	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
DS/ LAND ARC 639	Culture and Built Environment	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health
ECON 330	Money and Banking	ENVIR ST/ F&W ECOL 515	Natural Resources Policy
ECON 364	Survey of International Economics	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact
ECON 464	International Trade	ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects
ECON/ HISTORY 466	The American Economy Since 1865	ENVIR ST/ A A E/ECON/ URB R PL 671	Energy Economics
ECON 467	International Industrial Organizations	F&W ECOL 318	Principles of Wildlife Ecology
ECON 475	Economics of Growth	F&W ECOL 375	Special Topics (Freshwater Conservation)
ED POL 150	Education and Public Policy (Human Rights & Education)	F&W ECOL 410	Principles of Silviculture
ED POL 240	Comparative Education	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions
ED POL/ INTL ST 335	Globalization and Education	FOLKLORE 510	Folklore Theory
ED POL/ ANTHRO 570	Anthropology and Education	FRENCH 211	French Literary and Interdisciplinary Studies
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World
ED POL 675	Introduction to Comparative and International Education	FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	FRENCH 322	Modern French and Francophone Literature
ENGL 174	Literature and Social Justice	FRENCH 325	Visual Culture in French/ Francophone Studies
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	FRENCH 348	Modernity Studies
ENGL 352	Modernist Poetry	FRENCH 449	Francophone Modernity Studies
ENGL 353	British Literature since 1900	FRENCH 462	French/Francophone Cultural Studies Across the Centuries
ENGL 453	Topic in British Literature and Culture since 1900		
ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization		
ENGL/ ENVIR ST 533	Topic in Literature and the Environment		
ENGL/ THEATRE 575	British Drama, 1914 to Present		
ENVIR ST/ILS 126	Principles of Environmental Science		
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems		
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts		

FRENCH 465	French/Francophone Film	GEOG 475	Topics in Geography
FRENCH 467	Aspects of Contemporary French Literature	GEOG/ URB R PL 506	Historical Geography of European Urbanization
FRENCH 472	French/Francophone Literature and Women	GEOG 510	Economic Geography
GEN&WS/ ENGL 250	Women in Literature	GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Queer Film)	GEOG/ ENVIR ST 537	Culture and Environment
GEN&WS 310	Special Topics in Gender, Women and the Humanities (Virginia Woolf)	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
GEN&WS 320	Special Topics in Gender, Women and Society (Women and Change in Africa)	GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	GEOSCI/ ATM OCN 105	Survey of Oceanography
GEN&WS 420	Women in Cross-Societal Perspective	GEOSCI/ ENVIR ST 106	Environmental Geology
GEN&WS 424	Women's International Human Rights	GEOSCI/ ENVIR ST 411	Energy Resources
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	GERMAN 245	Topics in Dutch Life and Culture (Dutch Tolerance)
GEN&WS/ URB R PL 644	International Development and Gender	GERMAN 245	Topics in Dutch Life and Culture (Low Lands or High Water)
GEOG 101	Introduction to Human Geography	GERMAN 278	Topics in German Culture (Kafka and Kafkaesque)
GEOG/ ENVIR ST 120	Introduction to the Earth System	GERMAN 278	Topics in German Culture (Culture in 20th Century)
GEOG/ ENVIR ST 127	Physical Systems of the Environment	GERMAN 305	Literatur des 20. und 21. Jahrhunderts
GEOG 301	Revolutions and Social Change	GERMAN 325	Topics in Dutch Literature (Bezetting, Holocaust)
GEOG 302	Economic Geography: Locational Behavior	GERMAN 325	Topics in Dutch Literature (lit:reizen,migratie)
GEOG/ ENVIR ST 139	Global Environmental Issues	GERMAN 362	Topics in German Literature (Musik)
GEOG/ URB R PL 305	Introduction to the City	GERMAN 362	Topics in German Literature (Migration in deutscher)
GEOG/ INTL ST 311	The Global Game: Soccer, Politics, and Identity	GERMAN 372	Topics in German Culture (Deutschsprachige Lieder)
GEOG 318	Introduction to Geopolitics	GERMAN 372	Topics in German Culture (Oesterreich)
GEOG/ ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	GERMAN 372	Topics in German Culture (Deutscher Film)
GEOG/ BOTANY 338	Environmental Biogeography	GERMAN 372	Topics in German Culture (Green Germany)
GEOG/ ENVIR ST 339	Environmental Conservation	GERMAN 372	Topics in German Culture (China-German Point of View)
GEOG 340	World Regions in Global Context	GERMAN 372	Topics in German Culture (Theater auf Deutsch)
GEOG 349	Europe	GERMAN 411	Kultur des 20. und 21. Jahrhunderts
GEOG 355	Africa, South of the Sahara	GERMAN 445	Topics in Dutch Culture (Lage landen of hoog water?)
GEOG 358	Human Geography of Southeast Asia	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	GERMAN/ COM ARTS 655	German Film
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	HIST SCI/ ENVIR ST 353	History of Ecology

HIST SCI/ HISTORY/ MED HIST 508	Health, Disease and Healing II	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	HISTORY 533	Multi-Racial Societies in Latin America
HISTORY 201	The Historian's Craft (various)	HISTORY 600	Advanced Seminar in History (Global Religious Revivals)
HISTORY 221	Explorations in American History (H) (US-Latin Amer Relations)	HISTORY 600	Advanced Seminar in History (Global History of Nonviolence)
HISTORY 223	Explorations in European History (H) (Commodity Culture in Europe)	HISTORY 607	The American Impact Abroad: The Historical Dimension
HISTORY 223	Explorations in European History (H) (Wars of Religion Since 1914)	HORT 370	World Vegetable Crops
HISTORY 223	Explorations in European History (H) (Cold War in European Culture)	ILS 371	Interdisciplinary Studies in the Arts and Humanities (Tocqueville Democracy)
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (South Asians in Diaspora)	INTL BUS 200	International Business
HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (Pan-Asianism)	INTL BUS/ GEN BUS 320	Intercultural Communication in Business
HISTORY 241	Latin America from 1780 to 1940	INTL BUS 365	Contemporary Topics (International Perspectives)
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	INTL BUS/A A E/ ECON 462	Latin American Economic Development
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	INTL ST/ AFRICAN 302	Arabic Literature and Cinema
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
HISTORY/ ASIAN 319	The Vietnam Wars	INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America
HISTORY/ ASIAN 335	The Koreans: Korean War to the 21st Century	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	INTL ST/ ED POL 335	Globalization and Education
HISTORY 357	The Second World War	INTL ST/ A A E 373	Globalization, Poverty and Development
HISTORY/ POLI SCI 370	Islam and Politics	INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	INTL ST/ HISTORY 375	The Cold War - From World War II to End of Soviet Empire
HISTORY 403	Immigration and Assimilation in American History	INTL ST 401	Topics in Global Security
HISTORY 418	History of Russia	INTL ST 402	Topics in Politics and Policy in the Global Economy
HISTORY 419	History of Soviet Russia	INTL ST 403	Topics in Culture in the Age of Globalization
HISTORY 420	Russian Social and Intellectual History	INTL ST/ POLI SCI 423	Social Mobilization in Latin America
HISTORY/ LEGAL ST 426	The History of Punishment	INTL ST/ POLI SCI 431	Contentious Politics
HISTORY 434	American Foreign Relations, 1901 to the Present	INTL ST/ POLI SCI 434	The Politics of Human Rights
HISTORY 441	Revolution and Conflict in Modern Latin America	INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies
HISTORY 450	Making of Modern South Asia	INTL ST/ POLI SCI 439	The Comparative Study of Genocide
HISTORY/ ASIAN 454	Samurai: History and Image	INTL ST 501	Study Abroad Topics in Global Security

INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	LEGAL ST/ L I S 663	Introduction to Cyberlaw
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	LINGUIS/ ANTHRO 430	Language and Culture
INTL ST 504	Study Abroad Topics in Global Environment	LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I
INTL ST 520	Study Abroad Topics in International Studies	LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II
INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation
INTL ST 601	Topics in Global Security	LITTRANS 220	Chekhov: The Drama of Modern Life
INTL ST 602	Topics in Politics and Policy in the Global Economy	LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
INTL ST 603	Topics in Culture in the Age of Globalization	LITTRANS 222	Dostoevsky in Translation
INTL ST 620	Topics in International Studies	LITTRANS 224	Tolstoy in Translation
INTL ST 622	Washington DC Sem in International Affairs Seminar	LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature
ITALIAN 230	Modern Italian Culture	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
ITALIAN 322	Studies in Italian Literature and Culture II	LITTRANS 240	Soviet Literature in Translation
ITALIAN 450	Special Topics in Italian Literature (Modern Italian Drama)	LITTRANS 247	Topics in Slavic Literatures in Translation (Representing Holocaust)
ITALIAN 450	Special Topics in Italian Literature (Theater Workshop: Text to Stage)	LITTRANS 247	Topics in Slavic Literatures in Translation (Russia & Jews)
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Culture)	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language (Political Fictn/Film in Italy)	LITTRANS/ GEN&WS 270	German Women Writers in Translation
ITALIAN/ COM ARTS 460	Italian Film	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century
JEWISH/ POLI SCI 341	Israeli Politics and Society	LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation) (German Lit)
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	LITTRANS 326	Topics in Dutch Literature in Translation (Dutch Lit: Travel & Migration)
JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education	LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	LITTRANS 331	In Translation: Scandinavian Topics in Depth
JOURN 618	Mass Communication and Political Behavior	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen
JOURN 620	International Communication	LITTRANS 368	Modern Japanese Fiction
JOURN 621	Mass Communication in Developing Nations	LITTRANS 373	Topics in Japanese Literature (Evangelion)
L I S 201	The Information Society	LITTRANS 373	Topics in Japanese Literature (Japanese Ghost Stories)
L I S 661	Information Ethics and Policy	LITTRANS 373	Topics in Japanese Literature (Writing the Environment)
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Labor in the Americas)	LITTRANS 455	Modern Serbian and Croatian Literature in Translation
LEGAL ST 409	Human Rights in Law and Society		

LITTRANS 473	Polish Literature (in Translation) since 1863	POLI SCI 460	Topics in Political Philosophy (Economic Inequality)
MARKETNG/ INTL BUS 420	Global Marketing Strategy	POLI SCI 529	Arab-Israeli Conflict
MED HIST/ HIST SCI 668	Topics in History of Medicine (Health, Disease & Medicine)	POLI SCI 534	Socialism and Transitions to the Market
MUSIC/ FOLKLORE 402	Musical Cultures of the World	POLI SCI 538	Politics and Policies in the European Union
MUSIC 416	Survey of Music in the Twentieth Century	POLI SCI 601	Proseminar: Topics in Political Science (Post-Conflict)
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	POLI SCI 652	The Politics of Development
PHILOS/ ENVIR ST 441	Environmental Ethics	POLI SCI 659	Politics and Society: Contemporary Eastern Europe
PHILOS 555	Political Philosophy	POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics (Political Economy)
PHILOS 557	Issues in Social Philosophy	PORTUG/ GEN&WS 450	Brazilian Women Writers
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	PORTUG 467	Survey of Portuguese Literature since 1825
POLI SCI 323	Islam and World Politics	PORTUG 640	Topics in Luso-Brazilian Literature (LusoAfroBrazilian Studies)
POLI SCI 324	Chinese Politics	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	PSYCH 428	Introduction to Cultural Psychology
POLI SCI 330	Political Economy of Development	RELIG ST/ ANTHRO 343	Anthropology of Religion
POLI SCI 340	The European Union: Politics and Political Economy	RELIG ST 400	Topics in Religious Studies - Humanities (Indian Traditions Modern Age)
POLI SCI/ JEWISH 341	Israeli Politics and Society	RELIG ST 400	Topics in Religious Studies - Humanities (Belief & Unbelief)
POLI SCI 343	Theories of International Security	SCAND ST 251	Readings in Norwegian Literature
POLI SCI 346	China in World Politics	SCAND ST 261	Readings in Swedish Literature
POLI SCI 347	Terrorism	SCAND ST 271	Readings in Danish Literature
POLI SCI 348	Analysis of International Relations	SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century
POLI SCI 350	International Political Economy	SCAND ST 427	Contemporary Scandinavian Literature
POLI SCI 354	International Institutions and World Order	SCAND ST/ HISTORY 432	History of Scandinavia Since 1815
POLI SCI 356	Principles of International Law	SCAND ST 434	The Art of Isak Dinesen/Karen Blixen
POLI SCI 359	American Foreign Policy	SCAND ST 436	Topics in Scandinavian Literature (Criminal Utopias)
POLI SCI 363	Literature and Politics	SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today
POLI SCI 377	Nuclear Weapons and World Politics	SCAND ST 476	Scandinavian Life and Civilization II
POLI SCI 401	Selected Topics in Political Science (Global Governance)	SCAND ST 520	Special Topics (Humor and Noir)
POLI SCI 401	Selected Topics in Political Science (Authoritarianism)	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890
POLI SCI 421	The Challenge of Democratization	SLAVIC 242	Literatures and Cultures of Eastern Europe
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	SLAVIC 321	Fourth Year Russian I
POLI SCI/ INTL ST 431	Contentious Politics	SLAVIC 322	Fourth Year Russian II
POLI SCI 432	Comparative Legal Institutions	SLAVIC 405	Women in Russian Literature
POLI SCI/ INTL ST 434	The Politics of Human Rights	SLAVIC 420	Chekhov
POLI SCI 438	Comparative Political Culture	SLAVIC 434	Contemporary Russian Culture
POLI SCI/ INTL ST 439	The Comparative Study of Genocide		
POLI SCI 455	African International Relations		

SLAVIC 440	Soviet Literature	SPANISH 468	Topics in Hispanic Culture (Minds and Machines)
SLAVIC 449	History of Serbo-Croatian Literature	SPANISH 468	Topics in Hispanic Culture (Anthropocene:Cult,Econ,Enviro)
SLAVIC 454	Modern Serbo-Croatian Literature	THEATRE 327	History of Costume for the Stage
SLAVIC 472	History of Polish Literature after 1863	THEATRE 351	Fundamentals of Asian Stage Discipline
SOC 170	Population Problems	THEATRE 424	Contemporary World Theatre and Dramatic Literature
SOC 225	Contemporary Chinese Society	THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	THEATRE 526	The Theatres of China and Japan
SOC 496	Topics in Sociology (Intercultural Dialogues)	THEATRE/ SLAVIC 532	History of Russian Theatre
SOC 496	Topics in Sociology (The Soviet Jewish Experience)	THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
SOC 496	Topics in Sociology (Asylum and Refugees)	URB R PL/ECON/ REAL EST 641	Housing Economics and Policy
SOC/ C&E SOC 541	Environmental Stewardship and Social Justice	ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
SOC 626	Social Movements	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World	ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources
SOC 632	Sociology of Organizations	ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species
SOC 633	Social Stratification	ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
SOC 640	Sociology of the Family	ZOOLOGY 611	Comparative and Evolutionary Physiology
SOC 646	Race and Ethnic Relations	ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
SOC/ ED POL 648	Sociology of Education		
SOC/ C&E SOC 652	Sociology of Economic Institutions		
SOC/ECON 663	Population and Society		
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use		
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource		
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality		
SPANISH/ LACIS 285	Race and Culture in the Americas		
SPANISH 324	Survey of Modern Spanish Literature		
SPANISH 326	Survey of Spanish American Literature		
SPANISH/ INTL BUS 329	Spanish for Business		
SPANISH 361	Spanish Civilization		
SPANISH 363	Spanish American Civilization		
SPANISH 453	Literature of the Twentieth Century		
SPANISH 460	Literatura Hispanoamericana (Latin American Neo-Vanguards)		
SPANISH 461	The Spanish American Short Story		
SPANISH 462	Spanish American Theater and Drama		
SPANISH 464	Spanish American Poetry and Essay		
SPANISH 468	Topics in Hispanic Culture (Documentary Film)		

## LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES, B.A.

The Latin American, Caribbean, and Iberian Studies Program is one of the major US centers for research about Latin America. This program is for those who seek a multidisciplinary education on Latin America, the Caribbean, Spain, and Portugal. It offers a wide range of courses in fields such as anthropology, business, economics, geography, history, journalism, music, political science, sociology, Spanish and Portuguese, and indigenous languages such as Yucatec Maya or Quechua.

### HOW TO GET IN

Students should contact the LACIS undergraduate advisor (<https://lacs.wisc.edu/staff/ripp-sarah/>) in order to declare the major.



## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Introduction to Latin America (complete one course):</b>		<b>3</b>
HISTORY 241	Latin America from 1780 to 1940	
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	
LACIS/CHICLA/ HISTORY/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	
<b>Breadth/Interdisciplinary Requirement (Complete one course from each of the following two sequences)</b>		<b>6</b>
<i>Humanities/Education/Politics (Human-Centered)</i> (Complete one course)		
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	
CHICLA/ POLI SCI 302	Mexican-American Politics	
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	

CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	HORT 370	World Vegetable Crops
CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	HORT/ AGRONOMY 376	Tropical Horticultural Systems
CURRIC 292	Globalizing Education	HORT 378	Tropical Horticultural Systems International Field Study
ED POL 260	Introduction to International Education Development	LACIS/CHICLA/ HISTORY/ POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective
ED POL/ INTL ST 335	Globalization and Education	LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies <sup>1</sup>
GEN&WS 424	Women's International Human Rights	POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
GEOG 307	International Migration, Health, and Human Rights	SOC/ C&E SOC 222	Food, Culture, and Society
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	<b>Depth/Interdisciplinary Requirement (Complete three courses) 9</b>	
INTL ST 101	Introduction to International Studies	AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	A A E/ECON 474	Economic Problems of Developing Areas
LITTRANS 252	Spanish Literary Masterpieces in Translation	ANTHRO 340	Music, Race, And Culture in Brazil
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	ANTHRO/ LACIS 361	Elementary Quechua <sup>2</sup>
POLI SCI 321	Latin-American Politics	ANTHRO/ LACIS 362	Elementary Quechua <sup>2</sup>
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	ANTHRO/ LACIS 363	Intermediate Quechua <sup>2</sup>
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	ANTHRO/ LACIS 364	Advanced Quechua <sup>2</sup>
SPANISH/ LACIS 285	Race and Culture in the Americas	ANTHRO/ LACIS 376	First Semester Yucatec Maya <sup>2</sup>
SPANISH/ CHICLA 478	Border and Race Studies in Latin America	ANTHRO/ LACIS 377	Second Semester Yucatec Maya <sup>2</sup>
SPANISH 480	Topics in Latin American Performance/Visual Studies	ANTHRO 458	Primate Behavioral Ecology
<i>Environment/Economy/Health/Agriculture (Environment and Economy) (Complete one course)</i>		ANTHRO 668	Primate Conservation
A A E 319	The International Agricultural Economy	BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	CHICLA 301	Chicana/o and Latina/o History
A A E/ INTL ST 373	Globalization, Poverty and Development	CHICLA/ COM ARTS 419	Latino/as and Media
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World
BOTANY 265	Rainforests and Coral Reefs	CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice
C&E SOC/ SOC 222	Food, Culture, and Society	CHICLA/ HISTORY/ POLI SCI 422	Latino History and Politics
ENVIR ST/ F&W ECOL 100	Forests of the World	CHICLA/ LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement
GEN&WS/ URB R PL 644	International Development and Gender	CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
GEOG/ ENVIR ST 339	Environmental Conservation	CHICLA/ SPANISH 478	Border and Race Studies in Latin America
GEOG 340	World Regions in Global Context		
GEOG 348	Latin America		

CHICLA 520	Latinx Digital Publics
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services
CURRIC 366	Internationalizing Educational Knowledge
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures
ENGL/ THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
ENVIR ST/ C&E SOC/ GEOG 434	People, Wildlife and Landscapes
ENVIR ST/ BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
HISTORY/ LACIS 243	Colonial Latin America: Invasion to Independence
HISTORY 434	American Foreign Relations, 1901 to the Present
HISTORY 441	Revolution and Conflict in Modern Latin America
HISTORY 533	Multi-Racial Societies in Latin America
HISTORY/ HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean
JOURN 621	Mass Communication in Developing Nations
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies <sup>1</sup>
POLI SCI/ CHICLA/ HISTORY 422	Latino History and Politics
POLI SCI/ INTL ST 431	Contentious Politics
SOC/ CHICLA 470	Sociodemographic Analysis of Mexican Migration
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
<b>Language &amp; Cultural Studies: Complete three courses.</b>	
LACIS/ ANTHRO 361	Elementary Quechua <sup>3</sup>
LACIS/ ANTHRO 362	Elementary Quechua <sup>3</sup>
LACIS/ ANTHRO 363	Intermediate Quechua <sup>3</sup>
LACIS/ ANTHRO 364	Advanced Quechua <sup>3</sup>
LACIS/ ANTHRO 376	First Semester Yucatec Maya <sup>3</sup>

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LACIS/ ANTHRO 377	Second Semester Yucatec Maya <sup>3</sup>
PORTUG 201	Third Semester Portuguese
PORTUG 202	Fourth Semester Portuguese
PORTUG 207	Portuguese for Business
PORTUG 221	Introduction to Luso-Brazilian Literatures
PORTUG 225	Third Year Conversation and Composition
PORTUG 226	Third Year Conversation and Composition
PORTUG 301	Intensive Portuguese
PORTUG 302	Intensive Portuguese
PORTUG 311	Fourth Year Composition and Conversation
PORTUG 312	Fourth Year Composition and Conversation
PORTUG 361	Portuguese Civilization
PORTUG 362	Brazilian Civilization
PORTUG 364	Historical and Cultural Traditions of Brazil
PORTUG 411	Survey of Portuguese Literature before 1825
PORTUG 412	Survey of Brazilian Literature before 1890
PORTUG/ AFRICAN 451	Lusophone African Literature
PORTUG 467	Survey of Portuguese Literature since 1825
PORTUG 468	Survey of Brazilian Literature since 1890
PORTUG 573	Topics in Portuguese: Study Abroad
PORTUG 640	Topics in Luso-Brazilian Literature
PORTUG 642	Topics in Luso-Brazilian Culture
SPANISH 223	Introduction to Hispanic Cultures
SPANISH 224	Introduction to Hispanic Literatures
SPANISH 225	Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar
SPANISH 311	Advanced Language Practice
SPANISH 317	Spanish for Nursing
SPANISH 319	Topics in Spanish Language Practice
SPANISH 322	Survey of Early Hispanic Literature
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing
SPANISH 324	Survey of Modern Spanish Literature
SPANISH 325	Advanced Conversation
SPANISH 326	Survey of Spanish American Literature
SPANISH/ INTL BUS 329	Spanish for Business

SPANISH 359	Spanish Business Area Studies
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture
SPANISH/ MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)
SPANISH 417	Literatura del Siglo de Oro
SPANISH 430	Spanish in the United States
SPANISH 435	Cervantes
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 466	Topics in Spanish American Literature
SPANISH/ CHICLA 467	US Latino Literature
SPANISH 468	Topics in Hispanic Culture (The Beautiful Game, Human Rights: Argentina/Chile)
SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics
SPANISH 472	Hispanic Screen Studies
SPANISH 473	Study Abroad in Spanish Language Practice
SPANISH 474	Study Abroad in Spanish Linguistics
SPANISH 475	Study Abroad in Hispanic Literatures
SPANISH 476	Study Abroad in Hispanic Cultures
SPANISH 477	Latin American Rock Cultures
SPANISH 479	Latin American Literature and Human Rights
<b>LACIS Seminar (Complete one course) 3</b>	
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Only topics offered for at least 3 credits may meet this requirement.) <sup>1</sup>
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics

**Total Credits** 30

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LACIS and major courses
- 2.000 GPA on at least 15 credits of upper-level work (courses with intermediate or advanced designation) in the major, in residence
- 15 credits in LACIS, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the LACIS undergraduate advisor.

## HONORS IN THE LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all major courses
- Complete 18 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
<b>LACIS Introductory Course, taken for Honors (Complete one course)</b>		
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	<b>3-4</b>
LACIS/CHICLA/ HISTORY/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	
<b>LACIS Seminar, taken for Honors (Complete one course)</b>		
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Only courses that count for at least 3 credits will meet this requirement.) <sup>1</sup>	<b>3-4</b>
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World	
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	
<b>A two-semester Senior Honors Thesis, taken for Honors (Complete both courses)</b>		
LACIS 681	Senior Honors Thesis	<b>6</b>
LACIS 682	Senior Honors Thesis	
<b>Additional LACIS courses taken for Honors to achieve 18 credits</b>		

## FOOTNOTES

1

Can only meet requirements in multiple sections if the topic title is different

2

Only one Quechua or Yucatec Maya course may be used to meet this requirement (and may not meet both Depth/Interdisciplinary and Language & Cultural Studies requirement)

3

May meet either the Depth/Interdisciplinary or Language & Cultural Studies requirement, but not both.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### Freshman

Fall	Credits	Spring	Credits
Introductory Course for the Major	4	Breadth/Interdisciplinary Course	4
Communication A	4	Ethnic Studies	3
Quantitative Reasoning A	3	Biological Science Breadth	4
SPANISH 101	4	SPANISH 102	4
<b>15</b>		<b>15</b>	

### Sophomore

Fall	Credits	Spring	Credits
Breadth/Interdisciplinary Course		Communication B	4
Elective	3	Depth/Interdisciplinary Course	3
INTER-LS 210	1	Physical Science Breadth	4
Quantitative Reasoning B	4	SPANISH 204	4
Science Breadth	4		
SPANISH 203	4		
<b>16</b>		<b>15</b>	

### Junior

Fall	Credits	Spring	Credits
Recommend Study Abroad		Recommend Study Abroad and Apply for Summer Internship	
Depth/Interdisciplinary Course	3	Depth/Interdisciplinary Course	3
Elective	3	Spanish, Portuguese, Yucatec Maya, or Quechua language course	4
Science Breadth	4	I/A Level Comp Sci, Math, or Stat (if B.S.)	3
Spanish, Portuguese, Yucatec Maya, or Quechua language course	4	Electives	6
<b>14</b>		<b>16</b>	

### Senior

Fall	Credits	Spring	Credits
Spanish, Portuguese, Yucatec Maya, or Quechua language course	4	Electives	12
I/A Level Comp Sci, Math, or Stat (if B.S.)	4	LACIS Seminar Course	3

## LEARNING OUTCOMES

- (Interdisciplinarity) analyzing contemporary political, economic, and cultural realities in the LACIS regions from multi-disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
- (Depth of knowledge) mastering at the undergraduate expert level a particular disciplinary (e.g. history, anthropology etc.) or topical (e.g. poverty, gender, social justice etc.) theme in the LACIS regions by taking five courses in an area of concentration.
- (Historical and cultural grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in LACIS regions today.
- (Language knowledge) mastering at the undergraduate generalist level a particular facet of life in one or more LACIS regions by studying a foreign language to the advanced (3rd year) level and beyond.
- (Analytical skills) demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved

Electives	6	
	<b>14</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to determine which courses may satisfy major requirements.

Students are encouraged to seek the assistance of SuccessWorks at the College of Letters & Science early in their academic career. Take advantage of all the services offered such as mock interviews, resume and cover letter review sessions, career preparation workshops, and so on.

Students interested in international internships should contact the International Internships Program (<http://internships.international.wisc.edu/>) office.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

The Latin American, Caribbean, and Iberian Studies (LACIS) teaching staff consists of more than 100 faculty (<https://lakis.wisc.edu/people/affiliated-faculty/>) who teach Latin American, Caribbean, and Iberian language and area content courses.

LACIS also has a Steering Committee. (<https://lakis.wisc.edu/people/lakis-steering-committee/>)

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies, we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, post-secondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Undergraduate students (from any major or discipline) can apply to receive one-time funds (<https://lakis.wisc.edu/funding/for-undergraduates/>) for internships or volunteer programs in Latin America, the Caribbean, the Iberian Peninsula. Domestic programs will be considered if the work is related to the LACIS field of study. The internships and volunteer programs will be carried out in public institutions, or well-established NGOs. Students from any nationality and citizenship are eligible to apply. *Please note that preference is given to declared LACIS majors.* Please check with the LACIS undergraduate advisor, Sarah Ripp (<https://lakis.wisc.edu/staff/ripp-sara/>), about your plans before submitting an application to ensure it meets our criteria. Read post-internship reports from former grant recipients. We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES, B.S.

The Latin American, Caribbean, and Iberian Studies Program is one of the major US centers for research about Latin America. This program is for those who seek a multidisciplinary education on Latin America, the Caribbean, Spain, and Portugal. It offers a wide range of courses in fields such as anthropology, business, economics, geography, history, journalism, music, political science, sociology, Spanish and Portuguese, and indigenous languages such as Yucatec Maya or Quechua.

## HOW TO GET IN

Students should contact the LACIS undergraduate advisor (<https://lakis.wisc.edu/staff/ripp-sarah/>) in order to declare the major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Advanced Coursework** Complete at least 60 credits at the Intermediate or Intermediate/Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison

• 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Introduction to Latin America (complete one course):</b>		<b>3</b>
HISTORY 241	Latin America from 1780 to 1940	
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	
LACIS/CHICLA/ HISTORY/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	
<b>Breadth/Interdisciplinary Requirement (Complete one course from each of the following two sequences)</b>		<b>6</b>
<i>Humanities/Education/Politics (Human-Centered)</i> (Complete one course)		
AFROAMER/ DANCE/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	
CHICLA/ POLI SCI 302	Mexican–American Politics	
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	
CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	

CURRIC 292	Globalizing Education
ED POL 260	Introduction to International Education Development
ED POL/ INTL ST 335	Globalization and Education
GEN&WS 424	Women's International Human Rights
GEOG 307	International Migration, Health, and Human Rights
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism
INTL ST 101	Introduction to International Studies
INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America
LITTRANS 252	Spanish Literary Masterpieces in Translation
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas
POLI SCI 321	Latin-American Politics
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
POLI SCI/ INTL ST 423	Social Mobilization in Latin America
SPANISH/ LACIS 285	Race and Culture in the Americas
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
SPANISH 480	Topics in Latin American Performance/Visual Studies
<i>Environment/Economy/Health/Agriculture (Environment and Economy) (Complete one course)</i>	
A A E 319	The International Agricultural Economy
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition
A A E/ INTL ST 373	Globalization, Poverty and Development
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy
BOTANY 265	Rainforests and Coral Reefs
C&E SOC/ SOC 222	Food, Culture, and Society
ENVIR ST/ F&W ECOL 100	Forests of the World
GEN&WS/ URB R PL 644	International Development and Gender
GEOG/ ENVIR ST 339	Environmental Conservation
GEOG 340	World Regions in Global Context
GEOG 348	Latin America
HORT 370	World Vegetable Crops
HORT/ AGRONOMY 376	Tropical Horticultural Systems

HORT 378	Tropical Horticultural Systems International Field Study
LACIS/CHICLA/ HISTORY/ POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies <sup>1</sup>
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives
SOC/ C&E SOC 222	Food, Culture, and Society
<b>Depth/Interdisciplinary Requirement (Complete three courses) 9</b>	
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama
A A E/ECON 474	Economic Problems of Developing Areas
ANTHRO 340	Music, Race, And Culture in Brazil
ANTHRO/ LACIS 361	Elementary Quechua <sup>2</sup>
ANTHRO/ LACIS 362	Elementary Quechua <sup>2</sup>
ANTHRO/ LACIS 363	Intermediate Quechua <sup>2</sup>
ANTHRO/ LACIS 364	Advanced Quechua <sup>2</sup>
ANTHRO/ LACIS 376	First Semester Yucatec Maya <sup>2</sup>
ANTHRO/ LACIS 377	Second Semester Yucatec Maya <sup>2</sup>
ANTHRO 458	Primate Behavioral Ecology
ANTHRO 668	Primate Conservation
BOTANY/ AMER IND/ ANTHRO 474	Ethnobotany
CHICLA 301	Chicana/o and Latina/o History
CHICLA/ COM ARTS 419	Latino/as and Media
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World
CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice
CHICLA/ HISTORY/ POLI SCI 422	Latino History and Politics
CHICLA/ LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement
CHICLA/ SOC 470	Sociodemographic Analysis of Mexican Migration
CHICLA/ SPANISH 478	Border and Race Studies in Latin America
CHICLA 520	Latinx Digital Publics
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services



CURRIC 366	Internationalizing Educational Knowledge
ECON/A A E/ INTL BUS 462	Latin American Economic Development
ENGL/ CHICLA 368	Chicana/o and Latina/o Literatures
ENGL/ THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
ENVIR ST/ C&E SOC/ GEOG 434	People, Wildlife and Landscapes
ENVIR ST/ BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
HISTORY/ LACIS 243	Colonial Latin America: Invasion to Independence
HISTORY 434	American Foreign Relations, 1901 to the Present
HISTORY 441	Revolution and Conflict in Modern Latin America
HISTORY 533	Multi-Racial Societies in Latin America
HISTORY/ HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean
JOURN 621	Mass Communication in Developing Nations
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies <sup>1</sup>
POLI SCI/ CHICLA/ HISTORY 422	Latino History and Politics
POLI SCI/ INTL ST 431	Contentious Politics
SOC/ CHICLA 470	Sociodemographic Analysis of Mexican Migration
SOC/ C&E SOC 630	Sociology of Developing Societies/ Third World
<b>Language &amp; Cultural Studies: Complete three courses.</b>	
LACIS/ ANTHRO 361	Elementary Quechua <sup>3</sup>
LACIS/ ANTHRO 362	Elementary Quechua <sup>3</sup>
LACIS/ ANTHRO 363	Intermediate Quechua <sup>3</sup>
LACIS/ ANTHRO 364	Advanced Quechua <sup>3</sup>
LACIS/ ANTHRO 376	First Semester Yucatec Maya <sup>3</sup>
LACIS/ ANTHRO 377	Second Semester Yucatec Maya <sup>3</sup>
PORTUG 201	Third Semester Portuguese

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PORTUG 202	Fourth Semester Portuguese
PORTUG 207	Portuguese for Business
PORTUG 221	Introduction to Luso-Brazilian Literatures
PORTUG 225	Third Year Conversation and Composition
PORTUG 226	Third Year Conversation and Composition
PORTUG 301	Intensive Portuguese
PORTUG 302	Intensive Portuguese
PORTUG 311	Fourth Year Composition and Conversation
PORTUG 312	Fourth Year Composition and Conversation
PORTUG 361	Portuguese Civilization
PORTUG 362	Brazilian Civilization
PORTUG 364	Historical and Cultural Traditions of Brazil
PORTUG 411	Survey of Portuguese Literature before 1825
PORTUG 412	Survey of Brazilian Literature before 1890
PORTUG/ AFRICAN 451	Lusophone African Literature
PORTUG 467	Survey of Portuguese Literature since 1825
PORTUG 468	Survey of Brazilian Literature since 1890
PORTUG 573	Topics in Portuguese: Study Abroad
PORTUG 640	Topics in Luso-Brazilian Literature
PORTUG 642	Topics in Luso-Brazilian Culture
SPANISH 223	Introduction to Hispanic Cultures
SPANISH 224	Introduction to Hispanic Literatures
SPANISH 225	Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar
SPANISH 311	Advanced Language Practice
SPANISH 317	Spanish for Nursing
SPANISH 319	Topics in Spanish Language Practice
SPANISH 322	Survey of Early Hispanic Literature
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing
SPANISH 324	Survey of Modern Spanish Literature
SPANISH 325	Advanced Conversation
SPANISH 326	Survey of Spanish American Literature
SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 359	Spanish Business Area Studies
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization

SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture
SPANISH/ MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)
SPANISH 417	Literatura del Siglo de Oro
SPANISH 430	Spanish in the United States
SPANISH 435	Cervantes
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 466	Topics in Spanish American Literature
SPANISH/ CHICLA 467	US Latino Literature
SPANISH 468	Topics in Hispanic Culture (The Beautiful Game, Human Rights: Argentina/Chile)
SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics
SPANISH 472	Hispanic Screen Studies
SPANISH 473	Study Abroad in Spanish Language Practice
SPANISH 474	Study Abroad in Spanish Linguistics
SPANISH 475	Study Abroad in Hispanic Literatures
SPANISH 476	Study Abroad in Hispanic Cultures
SPANISH 477	Latin American Rock Cultures
SPANISH 479	Latin American Literature and Human Rights
<b>LACIS Seminar (Complete one course) 3</b>	
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Only topics offered for at least 3 credits may meet this requirement.) <sup>1</sup>
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics

**Total Credits 30**

### RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LACIS and major courses
- 2.000 GPA on at least 15 credits of upper-level work (courses with intermediate or advanced designation) in the major, in residence
- 15 credits in LACIS, taken on the UW-Madison campus

### HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the LACIS undergraduate advisor.

### HONORS IN THE LATIN AMERICAN, CARIBBEAN, AND IBERIAN STUDIES MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all major courses
- Complete 18 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
<b>LACIS Introductory Course, taken for Honors (Complete one course) 3-4</b>		
LACIS/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	
LACIS/CHICLA/ HISTORY/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
HISTORY 241	Latin America from 1780 to 1940	
HISTORY/ INTL ST/ LACIS 242	Modern Latin America	
<b>LACIS Seminar, taken for Honors (Complete one course) 3-4</b>		
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies (Only courses that count for at least 3 credits will meet this requirement.) <sup>1</sup>	
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World	
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	
<b>A two-semester Senior Honors Thesis, taken for Honors (Complete both courses) 6</b>		
LACIS 681	Senior Honors Thesis	
LACIS 682	Senior Honors Thesis	

**Additional LACIS courses taken for Honors to achieve 18 credits**

### FOOTNOTES

- 1 Can only meet requirements in multiple sections if the topic title is different
- 2 Only one Quechua or Yucatec Maya course may be used to meet this requirement (and may not meet both Depth/Interdisciplinary and Language & Cultural Studies requirement)
- 3 May meet either the Depth/Interdisciplinary or Language & Cultural Studies requirement, but not both.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Interdisciplinarity) analyzing contemporary political, economic, and cultural realities in the LACIS regions from multi-disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
- (Depth of knowledge) mastering at the undergraduate expert level a particular disciplinary (e.g. history, anthropology etc.) or topical (e.g. poverty, gender, social justice etc.) theme in the LACIS regions by taking five courses in an area of concentration.
- (Historical and cultural grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in LACIS regions today.
- (Language knowledge) mastering at the undergraduate generalist level a particular facet of life in one or more LACIS regions by studying a foreign language to the advanced (3rd year) level and beyond.
- (Analytical skills) demonstrating the ability to think critically and analytically, the capacity to write clearly and effectively, and the ability to identify and evaluate research methods and outcomes.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

<b>Freshman</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Introductory Course for the Major	4	Breadth/Interdisciplinary Course	4
Communication A	4	Ethnic Studies	3
Quantitative Reasoning A	3	Biological Science Breadth	4
SPANISH 101	4	SPANISH 102	4
		<b>15</b>	<b>15</b>

<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Breadth/Interdisciplinary Course		Communication B	4
Elective	3	Depth/Interdisciplinary Course	3
INTER-LS 210	1	Physical Science Breadth	4
Quantitative Reasoning B	4	SPANISH 204	4
Science Breadth	4		
SPANISH 203	4		
		<b>16</b>	<b>15</b>

<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Recommend Study Abroad		Recommend Study Abroad and Apply for Summer Internship	
Depth/Interdisciplinary Course	3	Depth/Interdisciplinary Course	3
Elective	3	Spanish, Portuguese, Yucatec Maya, or Quechua language course	4
Science Breadth	4	I/A Level Comp Sci, Math, or Stat (if B.S.)	3
Spanish, Portuguese, Yucatec Maya, or Quechua language course	4	Electives	6
		<b>14</b>	<b>16</b>

<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Spanish, Portuguese, Yucatec Maya, or Quechua language course	4	Electives	12
I/A Level Comp Sci, Math, or Stat (if B.S.)	4	LACIS Seminar Course	3
Electives	6		
		<b>14</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

Students should contact Sarah Ripp, the LACIS undergraduate advisor, at [skripp@wisc.edu](mailto:skripp@wisc.edu), to determine which courses may satisfy major requirements.

Students are encouraged to seek the assistance of SuccessWorks at the College of Letters & Science early in their academic career. Take advantage of all the services offered such as mock interviews, resume and cover letter review sessions, career preparation workshops, and so on.

Students interested in international internships should contact the International Internships Program (<http://internships.international.wisc.edu/>) office.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

The Latin American, Caribbean, and Iberian Studies (LACIS) teaching staff consists of more than 100 faculty (<https://lakis.wisc.edu/people/affiliated-faculty/>) who teach Latin American, Caribbean, and Iberian language and area content courses.

LACIS also has a Steering Committee. (<https://lakis.wisc.edu/people/lakis-steering-committee/>)

## RESOURCES AND SCHOLARSHIPS

Undergraduate students (from any major or discipline) can apply to receive one-time funds (<https://lakis.wisc.edu/funding/for-undergraduates/>) for internships or volunteer programs in Latin America, the Caribbean, the Iberian Peninsula. Domestic programs will be considered if the work is related to the LACIS field of study. The internships and volunteer programs will be carried out in public institutions, or well-established NGOs. Students from any nationality and citizenship are eligible to apply. *Please note that preference is given to declared LACIS majors.* Please check with the LACIS undergraduate advisor, Sarah Ripp (<https://lakis.wisc.edu/staff/ripp-sara/>), about your plans before submitting an application to ensure it meets our criteria. Read post-internship reports from former grant recipients. We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## MIDDLE EAST STUDIES, CERTIFICATE

Given the immense importance of the Middle East and North Africa (MENA) region in shaping contemporary world politics, the Middle East Studies certificate is designed to provide an interdisciplinary perspective of the region's history and contemporary dynamics and their representations across the diaspora. The MES certificate offers a unique opportunity for students to develop their interest and knowledge of the MENA region through a wide range of courses taught by UW professors with great expertise in the fields of political science, history, religious studies, sociology/anthropology, art history, literature, and modern languages.

MES certificate will give students a variety of career opportunities in international affairs, public policy, journalism, governmental institutions, education, public health, humanitarian organizations, economic development, and security, or going on to graduate school and a career in academia.

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the advisor.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

**18 credits** are required, as follows:

#### CORE COURSE

Code	Title	Credits
HISTORY 139	Introduction to the Modern Middle East	
INTL ST 266	Introduction to the Middle East	

## MIDDLE EASTERN LANGUAGE COURSE

One course required from:

Code	Title	Credits
AFRICAN 322	Second Semester Arabic	
AFRICAN 340	Second Semester Summer Arabic	
ASIALANG 138	Second Semester Persian	
GNS 340	Second Semester Turkish	
HEBR-MOD 102	Second Semester Hebrew	
HEBR-MOD 311	Second Semester Intensive Modern Hebrew	

## HISTORY AND SOCIAL SCIENCE COURSES

One course required from:

Code	Title	Credits
ANTHRO 322	The Origins of Civilization	
CURRIC 292	Globalizing Education	
CLASSICS 308	Sex and Violence in the Ancient Near East	
CLASSICS 321	The Egyptians: History, Society, and Literature	
GEOG 307	International Migration, Health, and Human Rights	
GEOG 340	World Regions in Global Context	
GEN&WS 424	Women's International Human Rights	
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	
HIST SCI/ ENVIR ST/ RELIG ST 356	Islam, Science & Technology, and the Environment	
HISTORY/ CLASSICS 110	The Ancient Mediterranean	
HISTORY 111	Culture & Society in the Ancient Mediterranean	
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	
HISTORY 139	Introduction to the Modern Middle East	
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	
HISTORY/ GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	
INTL ST 401	Topics in Global Security	
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	
JEWISH 231	Elementary Topics in Jewish History	

JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts
POLI SCI 320	Governments and Politics of the Middle East and North Africa
POLI SCI 323	Islam and World Politics
POLI SCI/ JEWISH 341	Israeli Politics and Society
POLI SCI 347	Terrorism
POLI SCI/ HISTORY 370	Islam and Politics
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East
POLI SCI 529	Arab-Israeli Conflict

## RELIGION AND CULTURE COURSES

One course required from:

Code	Title	Credits
AFRICAN 231	Introduction to Arabic Literary Culture	
AFRICAN 300	African Literature in Translation	
AFRICAN/ INTL ST 302	Arabic Literature and Cinema	
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	
AFRICAN 445	Advanced Readings in Arabic Texts	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	
ART HIST/ RELIG ST 373	Great Cities of Islam	
ART HIST 413	Art and Architecture in the Age of the Caliphs	
ART HIST 440	Art and Power in the Arab World	
ART HIST 510	Proseminar in Islamic Art and Architecture	
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature	
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	
ASIAN/ ART HIST 379	Cities of Asia	
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	
CLASSICS 321	The Egyptians: History, Society, and Literature	
CLASSICS/ HEBR-BIB/ JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
CLASSICS/ JEWISH/ RELIG ST 335	King David in History and Tradition	

CLASSICS/ JEWISH/ RELIG ST 346	Jewish Literature of the Greco-Roman Period
CLASSICS/ JEWISH 451	Biblical Archaeology
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean
FRENCH 285	Rebellious Women
GNS 460	Readings in Turkish: Contemporary Turkey through Literature and Media
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean
HEBR-BIB/ CLASSICS/ JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II
JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism
JEWISH/ LITTRANS 318	Modern Jewish Literature
JEWISH/ RELIG ST 322	The Sabbath
JEWISH 356	Jerusalem, Holy City of Conflict and Desire
JEWISH/ LITTRANS 367	Israeli Fiction in Translation
JEWISH/HEBR-MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I
JEWISH/HEBR-MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II
JEWISH 430	Intermediate Topics in Jewish Literature
JEWISH/ AFRICAN/ MEDIEVAL/ RELIG ST 462	Muslims and Jews

LITTRANS/ JEWISH/ RELIG ST 328	Classical Rabbinic Literature in Translation
LITTRANS/ JEWISH 367	Israeli Fiction in Translation
RELIG ST/ HISTORY 205	The Making of the Islamic World: The Middle East, 500-1500
RELIG ST/ ASIAN 206	The Qur'an: Religious Scripture & Literature
RELIG ST/ JEWISH 211	Introduction to Judaism
RELIG ST/ CLASSICS/ JEWISH 335	King David in History and Tradition
RELIG ST/ CLASSICS/ JEWISH 346	Jewish Literature of the Greco-Roman Period
RELIG ST/ ENVIR ST/ HIST SCI 356	Islam, Science & Technology, and the Environment
RELIG ST/ AFRICAN/ ASIAN 370	Islam: Religion and Culture
RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)
RELIG ST/ CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean

## ELECTIVES

Additional course work from the categories above, or the following may be used to meet reach the minimum 18 credits required.<sup>1</sup>

Code	Title	Credits
AFRICAN 325	Colloquial Arabic	
AFRICAN 326	Colloquial Arabic	
AFRICAN 329	Fifth Semester Arabic	
AFRICAN 330	Sixth Semester Arabic	
AFRICAN 343	Fifth Semester Summer Arabic	
AFRICAN 344	Sixth Semester Summer Arabic	
AFRICAN 445	Advanced Readings in Arabic Texts	
ASIALANG 337	Fifth Semester Persian	
ASIALANG 338	Sixth Semester Persian	
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	
CURRIC 292	Globalizing Education	
CURRIC 366	Internationalizing Educational Knowledge	
GNS 529	Advanced Summer Immersion Turkish	
GNS 539	Fifth Semester Turkish and Azeri	
GNS 540	Sixth Semester Turkish and Azeri	
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	

HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II
JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century

- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising/>) (Language Institute)
- International Internship Program (<http://internships.international.wisc.edu/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## RESIDENCE AND QUALITY OF WORK

- At least 9 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## FOOTNOTES

1

A maximum of 3 credits of Advanced Language may apply to the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Historical and Cultural Grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline.

## ADVISING AND CAREERS

Advising for the certificate is run by the Institute for Regional and International Studies (<https://iris.wisc.edu/>) (IRIS). The IRIS Assistant Director for Students and Curriculum advises the certificate and can assist you in developing your plan of study, track progress toward your certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

Resources:

## PEOPLE

**Steven Brooke**, Middle East Studies Program Director

**Tsela Barr**, Assistant Director

**Lindsey Bliefert**, Assistant Director for Students and Curriculum and Advisor

MESP Core Faculty (<https://mideast.wisc.edu/core-faculty/>) and Staff (<https://mideast.wisc.edu/staff/>)

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies (<https://iris.wisc.edu/>), we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, and learn foreign languages, and we expect them to gain an interdisciplinary grounding in global and regional affairs.

We provide resources and expertise on our world area to students, and prospective students, and more broadly to K–12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Information about funding through the Middle East Studies Program is available on our website (<https://mideast.wisc.edu/funding-resources/>). We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## RUSSIAN, EAST EUROPEAN, AND CENTRAL ASIAN STUDIES, CERTIFICATE

The undergraduate certificate program in Russian, East European, and Central Asian studies seeks to provide undergraduate students with area knowledge of the societies and cultures of the peoples of Eastern Europe and Eurasia, drawing on the disciplines of anthropology, communication arts, economics, folklore, geography, history, language and literature, law, political science, and sociology. The certificate can be a valuable addition to a major in business, economics, education, geography, history, international studies, political science, Slavic languages and literature, and other departments.

Applicants must fulfill the UW–Madison requirements for an established major in their school or college and achieve a minimum GPA of 2.500 in all courses they wish to count toward the certificate. Courses may **not** be taken on a pass/fail basis. At least two years of a Slavic, East European, or Central Asian language are strongly recommended for the certificate, but are not formally required.

(For information on the major in Russian, the major in Polish, and/or the certificate in East Central European Languages, Literatures, and Cultures, see German, Nordic, and Slavic+ (<https://gns.wisc.edu/>).

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the advisor.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Seven courses are required, at least one from each of the following three groups.<sup>1</sup>

#### INTERDISCIPLINARY COURSES (GROUP 1)

Complete at least one course:

Code	Title	Credits
HISTORY/POLI SCI/GEOG/ SLAVIC 253	Russia: An Interdisciplinary Survey	
HISTORY/POLI SCI/GEOG/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	
HISTORY/ GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	

#### HISTORY AND THE SOCIAL SCIENCES (GROUP 2):

Complete at least one course from any of these areas:

##### Agricultural and Applied Economics

Code	Title	Credits
A A E/ ENVIR ST 244	The Environment and the Global Economy	
A A E/ INTL ST 373	Globalization, Poverty and Development	
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	
A A E/ECON 474	Economic Problems of Developing Areas	

##### Anthropology

Code	Title	Credits
ANTHRO 606	Ethnicity, Nations, and Nationalism	

##### Economics

Code	Title	Credits
ECON 364	Survey of International Economics	
ECON 464	International Trade	

##### Geography

Code	Title	Credits
GEOG 318	Introduction to Geopolitics	
GEOG 340	World Regions in Global Context (Check with instructor to verify 25% or more regional content )	

##### History

Code	Title	Credits
HISTORY 270	Eastern Europe since 1900	
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	
HISTORY 357	The Second World War	
HISTORY 359	History of Europe Since 1945	
HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	
HISTORY 417	History of Russia	
HISTORY 418	History of Russia	
HISTORY 419	History of Soviet Russia	
HISTORY 420	Russian Social and Intellectual History	
HISTORY 424	The Soviet Union and the World, 1917-1991	



HISTORY 425	History of Poland and the Baltic Area
HISTORY 434	American Foreign Relations, 1901 to the Present
HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education

### Gender & Women's Studies

Code	Title	Credits
GEN&WS 424	Women's International Human Rights	

### Political Science

Code	Title	Credits
POLI SCI 120	Introduction to Comparative Politics	
POLI SCI 182	Introduction to Comparative Politics (Honors)	
POLI SCI 323	Islam and World Politics	
POLI SCI 334	Russian Politics	
POLI SCI 340	The European Union: Politics and Political Economy	
POLI SCI 421	The Challenge of Democratization	
POLI SCI 432	Comparative Legal Institutions	
POLI SCI/ INTL ST 434	The Politics of Human Rights	
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	
POLI SCI 534	Socialism and Transitions to the Market	
POLI SCI 538	Politics and Policies in the European Union	
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	

### Sociology

Code	Title	Credits
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	
SOC/ECON 663	Population and Society	

## LITERATURE AND THE ARTS (GROUP 3)

Complete at least one course from any of these areas:

### Asian Language & Culture

Code	Title	Credits
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	

### Communication Arts

Code	Title	Credits
COM ARTS 463	Avant-Garde Film	

### Comparative Literature

Code	Title	Credits
COMP LIT 202	Introduction to Modern and Contemporary Literature	
COMP LIT 350	Problems in Comparative Literatures and Cultures	

### English

Code	Title	Credits
ENGL/ LITTRANS 223	Vladimir Nabokov: Russian and American Writings	

### Folklore

Code	Title	Credits
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	
FOLKLORE/ RELIG ST 352	Shamanism	
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	
FOLKLORE 460	Folk Epics	

### German, Nordic and Slavic

Code	Title	Credits
GNS/ FOLKLORE 200	Folklore of Central, Eastern and Northern Europe	
GNS/ ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	
GNS 324	Literatures of Central Asia	
GNS 460	Readings in Turkish: Contemporary Turkey through Literature and Media	
GNS 471	Advanced Topics in East European and Central Asian Languages and Cultures	

### Jewish Studies

Code	Title	Credits
JEWISH 230	Elementary Topics in Jewish Literature	
JEWISH/ GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	

### Literature in Translation

Code	Title	Credits
LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	

LITTRANS 207	Slavic Science Fiction through Literature and Film
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries
LITTRANS 220	Chekhov: The Drama of Modern Life
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol
LITTRANS 222	Dostoevsky in Translation
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings
LITTRANS 224	Tolstoy in Translation
LITTRANS 229	Representation of the Jew in Eastern European Cultures
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)
LITTRANS 240	Soviet Literature in Translation
LITTRANS 241	Literatures and Cultures of Eastern Europe
LITTRANS 247	Topics in Slavic Literatures in Translation
LITTRANS/ SLAVIC 266	Elementary Special Topics in Russian Literature & Culture
LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore
LITTRANS/ SLAVIC 361	Living at the End of Times: Contemporary Polish Literature and Culture
LITTRANS/ SLAVIC 366	Intermediate Special Topics in Russian Literature & Culture
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context
LITTRANS 454	History of Serbian and Croatian Literature
LITTRANS 455	Modern Serbian and Croatian Literature in Translation
LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863
LITTRANS 473	Polish Literature (in Translation) since 1863

### Scandinavian Studies

Code	Title	Credits
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	

SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore
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### Slavic Languages and Literature

Code	Title	Credits
SLAVIC 231	History and Ethics on Film: Polish Cinema	
SLAVIC/ LITTRANS 238	Literature and Revolution	
SLAVIC 239	Performance and Power	
SLAVIC 242	Literatures and Cultures of Eastern Europe	
SLAVIC 243	Contemporary Russia: History, Politics, and Culture	
SLAVIC 245	Topics in Slavic Literatures	
SLAVIC/ LITTRANS 266	Elementary Special Topics in Russian Literature & Culture	
SLAVIC 285	Slavic Culture in Context: An Honors Course	
SLAVIC 307	Study Abroad in Poland	
SLAVIC 308	Polish Culture and Area Studies on Study Abroad	
SLAVIC 309	Russian Area Studies on Study Abroad	
SLAVIC 310	Topics in Russian: Study Abroad	
SLAVIC 342	Introduction to Serbian and Croatian Literature	
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	
SLAVIC/ LITTRANS 366	Intermediate Special Topics in Russian Literature & Culture	
SLAVIC 405	Women in Russian Literature	
SLAVIC 420	Chekhov	
SLAVIC 421	Gogol	
SLAVIC 422	Dostoevsky	
SLAVIC 424	Tolstoy	
SLAVIC 433	History of Russian Culture	
SLAVIC 434	Contemporary Russian Culture	
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	
SLAVIC 440	Soviet Literature	
SLAVIC 449	History of Serbo-Croatian Literature	
SLAVIC 454	Modern Serbo-Croatian Literature	
SLAVIC 465	Advanced Readings in Russian Literature & Culture	
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	
SLAVIC 470	History of Polish Literature until 1863	
SLAVIC 472	History of Polish Literature after 1863	
SLAVIC/ THEATRE 532	History of Russian Theatre	

SLAVIC 560 Capstone Seminar in Russian Literature and Culture

SLAVIC 699 Directed Study

### Theatre & Drama

Code	Title	Credits
THEATRE/ LITTRANS 423	In Translation: Slavic Drama in Context	
THEATRE/ SLAVIC 532	History of Russian Theatre	

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.500 GPA on all certificate courses
- At least 11 certificate credits must be completed in residence

## FOOTNOTES

1

A course that is listed in more than one group will only apply to one group.

A course that is more than minimally required in one group may apply to a different group.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Regional Understanding) Demonstrate an understanding of the cultural, political, economic, social, and historical factors that have shaped the development of societies in Eurasia, Russia, and East and Central Europe.
2. (Multi-disciplinarity) Analyze the historical, political, economic, social, and cultural realities in the region from at least two disciplinary perspectives, including both humanities and social sciences approaches.

## ADVISING AND CAREERS

Advising for the certificate is administered by the Institute for Regional and International Studies (IRIS). The IRIS Assistant Director for Students and Curriculum can assist you in developing your plan of study for the certificate, track progress toward your certificate, explore study abroad and international internship options, and begin the career-exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

### Resources:

- Language and International Directions Advising (<http://www.languages.wisc.edu/languageadvising/>) (Language Institute)

- International Internship Program (<http://internships.international.wisc.edu/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:** Borowski, Castañeda Dower, Ciancia, Dale, Danaher, DuBois, Erbil, Evans-Romaine, Gerber, Glowacki, Hanukai, Hendley, Herrera, Hirsch, Karpukhin, Kinzley, Kydd, Livanos, McDonald, Michels, Miernowska, Neville, Ospovat, Radeloff, Reynolds, Shevelenko (director), Stoychuk, Tishler, Tumarkin, Walter, Wodzyński, Yudkoff.

For a full list of CREECA faculty & staff, visit this link (<https://creeca.wisc.edu/people/>).

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies, we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly

to K–12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Information about resources, scholarships, and other funding through the Center for Russia, East Europe, and Central Asia is available from our website (<https://creeca.wisc.edu/>) on the Resources tab. We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## SOUTH ASIAN STUDIES, CERTIFICATE

### SOUTH ASIAN STUDIES CERTIFICATE PROGRAM

Undergraduates interested in cross-disciplinary study of South Asia (generally defined as the countries of Afghanistan, Bangladesh, Bhutan, India, Nepal, Pakistan, Sri Lanka, and the Tibetan region) may earn a certificate in South Asian studies. The certificate can be a valuable addition to a major in anthropology, archeology, business, communications, economics, education, gender and women's studies, geography, history, international studies, journalism, languages and cultures of Asia, political science, zoology, and other departments. Completion of the certificate provides a concentration in the area through language and/or interdisciplinary training that provides enhanced career opportunities or increased preparation for graduate study.

The certificate in South Asian studies can be partially fulfilled through completion of a study abroad program in South Asia administered by International Academic Programs (<http://www.studyabroad.wisc.edu>).

## HOW TO GET IN

Students interested in declaring the undergraduate certificate should contact the undergraduate advisor.

Students declared in the Asian Languages and Cultures: South Asian Studies BA/BS/MAJ are not eligible to declare the South Asian Studies certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Complete 21 credits, distributed as follows:

#### INTRODUCTORY COURSE

Code	Title	Credits
<b>One course from:</b>		<b>3-4</b>
ASIAN 100	Gateway to Asia: Special Topics	
ASIAN/ RELIG ST 274	Religion in South Asia	

HISTORY 142	History of South Asia to the Present
HISTORY 450	Making of Modern South Asia

#### AREA COURSES

Code	Title	Credits
<b>9 credits from:</b>		<b>9</b>
ANTHRO 102	Archaeology and the Prehistoric World	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST/ ASIAN 379	Cities of Asia	
ART HIST/ ASIAN 621	Mapping, Making, and Representing Colonial Spaces	
ASIALANG 133	First Semester Hindi	
ASIALANG 134	Second Semester Hindi	
ASIALANG 135	First Semester Modern Tibetan	
ASIALANG 136	Second Semester Modern Tibetan	
ASIALANG 137	First Semester Persian	
ASIALANG 138	Second Semester Persian	
ASIALANG 139	First Semester Urdu	
ASIALANG 140	Second Semester Urdu	
ASIALANG 141	First Semester Sanskrit	
ASIALANG 142	Second Semester Sanskrit	
ASIALANG 233	Third Semester Hindi	
ASIALANG 234	Fourth Semester Hindi	
ASIALANG 235	Third Semester Modern Tibetan	
ASIALANG 236	Fourth Semester Modern Tibetan	
ASIALANG 237	Third Semester Persian	
ASIALANG 238	Fourth Semester Persian	
ASIALANG 239	Third Semester Urdu	
ASIALANG 240	Fourth Semester Urdu	
ASIALANG 241	Third Semester Sanskrit	
ASIALANG 242	Fourth Semester Sanskrit	
ASIALANG 317	First Semester South Asian Language	
ASIALANG 327	Second Semester South Asian Language	
ASIALANG 333	Fifth Semester Hindi	
ASIALANG 334	Sixth Semester Hindi	
ASIALANG 335	Fifth Semester Tibetan	
ASIALANG 336	Sixth Semester Tibetan	
ASIALANG 337	Fifth Semester Persian	
ASIALANG 338	Sixth Semester Persian	
ASIALANG 339	Fifth Semester Urdu	
ASIALANG 340	Sixth Semester Urdu	
ASIALANG 417	Third Semester South Asian Language	
ASIALANG 427	Fourth Semester South Asian Language	
ASIALANG 517	Fifth Semester South Asian Language	
ASIALANG 527	Sixth Semester South Asian Language	

ASIALANG 653	Advanced Readings in Hindi Language
ASIALANG 675	Advanced Readings in Sanskrit
ASIALANG 677	Advanced Readings in Tibetan
ASIAN/ RELIG ST 218	Health and Healing in South Asia
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters
ASIAN 268	Tibetan Cultures and Traditions
ASIAN/ RELIG ST 274	Religion in South Asia
ASIAN 300	Topics in Asian Studies
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism
ASIAN 311	Modern Indian Literatures
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia
ASIAN/ ART HIST 428	Visual Cultures of India
ASIAN/ COM ARTS 443	Indian Cinema and Beyond
ASIAN/ RELIG ST 460	The History of Yoga
ASIAN/ HISTORY 463	Topics in South Asian History
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization
ASIAN 630	Proseminar: Studies in Cultures of Asia
ASIAN AM 101	Introduction to Asian American Studies
ASIAN AM/ ENGL 270	A Survey of Asian American Literature
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement
GEOG 340	World Regions in Global Context
GEOG 510	Economic Geography
GEN&WS 102	Gender, Women, and Society in Global Perspective
GEN&WS/ URB R PL 644	International Development and Gender
HISTORY 130	An Introduction to World History
HISTORY 142	History of South Asia to the Present
HISTORY 229	Explorations in Transnational/Comparative History (Humanities)
HISTORY 434	American Foreign Relations, 1901 to the Present
HISTORY 450	Making of Modern South Asia
INTL BUS 200	International Business
INTL ST 320	Contemporary Issues in International Studies
LEGAL ST/ HISTORY 510	Legal Pluralism

NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition
POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease
RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)
RELIG ST/ ASIAN 473	Meditation in Indian Buddhism and Hinduism
RELIG ST 600	Religion in Critical Perspective
THEATRE/ ENGL 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South

**Total Credits****9****DISCIPLINARY COURSES**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>6 credits from:</b>		<b>6</b>
A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	
ANTHRO 102	Archaeology and the Prehistoric World	
ANTHRO 322	The Origins of Civilization	
ANTHRO/ LINGUIS 430	Language and Culture	
ART HIST 411	Topics in Asian Art	
ASIAN/ RELIG ST 218	Health and Healing in South Asia	
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	
ASIAN 268	Tibetan Cultures and Traditions	
ASIAN/ RELIG ST 274	Religion in South Asia	
ASIAN/ RELIG ST 306	Hinduism	
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	
ASIAN 311	Modern Indian Literatures	
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	
ASIAN/ ART HIST 428	Visual Cultures of India	
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	
ASIAN/ COM ARTS 443	Indian Cinema and Beyond	
ASIAN/ RELIG ST 460	The History of Yoga	
ASIAN/ RELIG ST 466	Buddhist Thought	

ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism
CURRIC 292	Globalizing Education
CURRIC 366	Internationalizing Educational Knowledge
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education
ED POL 260	Introduction to International Education Development
ENGL/ASIAN 478	Indian Writers Abroad: Literature, Diaspora and Globalization
ENGL/ THEATRE 577	Postcolonial Theatre: Drama, Theory and Performance in the Global South
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights
GEOG/ INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement
GEOG 340	World Regions in Global Context
GEOG 510	Economic Geography
INTL BUS 200	International Business
INTL BUS/ GEN BUS 320	Intercultural Communication in Business
INTL BUS/ MARKETNG 420	Global Marketing Strategy
INTL ST/ A A E 374	The Growth and Development of Nations in the Global Economy
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
RELIG ST/ ASIAN 307	A Survey of Tibetan Buddhism

## CAPSTONE

Code	Title	Credits
<b>3 credits from:</b>		<b>3</b>
ANTHRO 690	Problems in Anthropology	
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	
ASIAN 600	Capstone Seminar in Asian Humanities	
ASIAN/ ART HIST 621	Mapping, Making, and Representing Colonial Spaces	
ASIAN 630	Proseminar: Studies in Cultures of Asia	
ASIAN/ RELIG ST 650	Proseminar in Buddhist Thought	
ASIAN 655	Ethnography in Asia	
ENVIR ST/ C&E SOC/ SOC 540	Sociology of International Development, Environment, and Sustainability	

HISTORY/ ASIAN 463	Topics in South Asian History
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society
POP HLTH 644	Interdisciplinary Perspectives on Global Health and Disease
RELIG ST/ ASIAN 473	Meditation in Indian Buddhism and Hinduism

## RESIDENCE & QUALITY OF WORK

- Minimum 2.750 GPA on all certificate courses.
- At least 11 certificate credits must be completed in residence.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Historical Grounding) understanding the historical, political, and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country, or by studying a regional language, or by taking at least two courses on the region in one discipline.

## ADVISING AND CAREERS

Advising for the certificate is administered by the Institute for Regional and International Studies (IRIS). The IRIS assistant director for students and curriculum can assist you in developing your plan of study for the certificate, track progress towards your certificate, explore study abroad and international internship options, and begin the career exploration process. We offer walk-in advising, advising workshops, and scheduled appointments. We strongly encourage students to begin career exploration early on and to make use of the many resources available on campus.

Contact the certificate advisor (Lindsey Bliefernicht, (608) 262-2630; [lindsey.bliefernicht@wisc.edu](mailto:lindsey.bliefernicht@wisc.edu)) to create a plan that includes a well-balanced selection of area studies and disciplinary courses and for approval of appropriate introductory and capstone seminar courses.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Center for South Asia Advisory Committee: Anthony Cerulli (Director), Sarah Beckham, Uchita Vaid, Jamal Jones, Sumudu Atapattu, Anirban Baishya, Todd Michelson-Ambelang, Felecia Lucht

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies, we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who is interested.

## RESOURCES AND SCHOLARSHIPS

Information about resources and scholarships through the Center for South Asia is available from our website (<http://southasia.wisc.edu/>). Please contact the Center for more information about the South Asian Flagship Languages Initiative (SAFLI), the South Asia Summer Language Institute (SASLI) and the Annual Conference on South Asia. We also strongly encourage our students to explore funding options available

through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

# SOUTHEAST ASIAN STUDIES, CERTIFICATE

## CERTIFICATE IN SOUTHEAST ASIAN STUDIES

The undergraduate certificate in Southeast Asian studies is available to students working toward a baccalaureate degree in any of the University of Wisconsin-Madison schools and colleges. This certificate meets the needs of students choosing to focus on the Southeast Asia region (Brunei, Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar/Burma, Philippines, Singapore, Thailand, Vietnam) within their primary major, but not wishing to commit to the more rigorous language and area studies courses required for the B.A. in Asian Languages and Cultures (named option in Southeast Asia). Students select coursework reflecting their interests from classes offered through many university departments, and can work toward a variety of undergraduate majors. Upon earning the certificate, this emphasis is noted on the student's transcript. The certificate is of value to students wishing to demonstrate their knowledge of the Southeast Asian region either to potential employers or to graduate schools.

Students interested in more specialized study of the languages and literature of East Asia, South Asia, or Southeast Asia should see the Department of Asian Languages and Cultures, the Center for East Asian Studies, or the Center for South Asia. Those interested in the study of languages and cultures of Central Asia should see the Center for Russian, East European, and Central Asian Studies. All questions pertaining to Southeast Asian studies at UW-Madison should be addressed to the Center for Southeast Asian Studies (see box at right).

## HOW TO GET IN

Students interested in declaring the certificate in Southeast Asian studies should contact the program advisor.

Students declared in the Asian Languages and Cultures: Southeast Asian Studies BA/BS/MAJ are not eligible to declare the Southeast Asian Studies certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Complete 15 credits, as follows:

Code	Title	Credits
<b>Up to 6 credits of Language may count:</b>		
ASIALANG 223	Third Semester Filipino	<b>0-6</b>
ASIALANG 224	Fourth Semester Filipino	
ASIALANG 225	Third Semester Hmong	
ASIALANG 226	Fourth Semester Hmong	
ASIALANG 227	Third Semester Indonesian	

ASIALANG 228	Fourth Semester Indonesian
ASIALANG 229	Third Semester Thai
ASIALANG 230	Fourth Semester Thai
ASIALANG 231	Third Semester Vietnamese
ASIALANG 232	Fourth Semester Vietnamese
ASIALANG 243	Third Semester Burmese
ASIALANG 244	Fourth Semester Burmese
ASIALANG 245	Third Semester Khmer
ASIALANG 246	Fourth Semester Khmer
ASIALANG 323	Fifth Semester Filipino
ASIALANG 324	Sixth Semester Filipino
ASIALANG 325	Fifth Semester Hmong
ASIALANG 326	Sixth Semester Hmong
ASIALANG 328	Sixth Semester Indonesian
ASIALANG 329	Fifth Semester Thai
ASIALANG 330	Sixth Semester Thai
ASIALANG 331	Fifth Semester Vietnamese
ASIALANG 332	Sixth Semester Vietnamese
ASIALANG 343	Fifth Semester Burmese
ASIALANG 344	Sixth Semester Burmese
ASIALANG 345	Fifth Semester Khmer
ASIALANG 346	Sixth Semester Khmer
ASIALANG 348	Fifth Semester Indonesian
ASIALANG 407	Third Semester Southeast Asian Language
ASIALANG 408	Fourth Semester Southeast Asian Language
ASIALANG 507	Fifth Semester Southeast Asian Language
ASIALANG 508	Sixth Semester Southeast Asian Language
ASIALANG 607	Seventh Semester Southeast Asian Language
ASIALANG 608	Eighth Semester Southeast Asian Language

**Core courses: 9-15**

A A E/ INTL ST 373	Globalization, Poverty and Development
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature
ASIAN 403	Southeast Asian Literature
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)
GEOG/ASIAN/ HISTORY/ POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
GEOG 340	World Regions in Global Context
GEOG 358	Human Geography of Southeast Asia
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War

HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism
HISTORY/ ASIAN 319	The Vietnam Wars
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800
INTL BUS 200	International Business
RELIG ST/ ENVIR ST 270	The Environment: Religion & Ethics
RELIG ST/ AFRICAN/ ASIAN 370	Islam: Religion and Culture

**Total Credits****15**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 8 certificate credits must be completed in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Historical and Cultural Grounding) understanding the historical political and cultural forces and conditions that have given rise to the unity and diversity in the region today.
2. (Multi-disciplinarity) analyzing contemporary political, economic, and cultural realities in the region from at least two disciplinary perspectives, ideally including humanities, social sciences and sometimes natural science approaches.
3. (Depth of Knowledge) mastering at the undergraduate generalist level a particular facet of life in the region by taking courses on a particular sub-region or country or by studying a regional language or by taking at least two courses on the region in one discipline.

## ADVISING AND CAREERS

All students interested in this certificate are encouraged to take HISTORY/ASIAN/GEOG/POLI SCI/SOC 244 Introduction to Southeast Asia: Vietnam to the Philippines.

Southeast Asian language courses can be taken during the academic year (Filipino, Hmong, Indonesian, Thai, and Vietnamese) and all of these plus three others (Burmese, Khmer, and Lao) can be taken at UW-Madison's summer program, the Southeast Asian Studies Summer Institute (<http://seassi.wisc.edu/>).

Students interested in the certificate in Southeast Asian studies, should contact the program advisor Michael Cullinane, [mmcullin@wisc.edu](mailto:mmcullin@wisc.edu), 608-263-1755.



## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:** Professors Bowie (Anthropology), Gade (Nelson Institute for Environmental Studies), Hansen (History), A. McCoy (History), Olds (Geography), Sidel (Law); Associate Professors Baird (Geography, Director), Choy (Dance/Asian American Studies), Haberkorn (Asian Languages and Cultures), Ho (Curriculum and Instruction/Education), Kim (Anthropology), Nobles (Sociology); Assistant Professor Kusumaryati (Anthropology/International Studies); Faculty Associates Barnard (Asian Languages & Cultures), Cullinane (History/Southeast Asian Studies), M. McCoy (Communication Arts/Southeast Asian Studies); Lecturers Dinh (Asian Languages & Cultures), Lee (Asian Languages & Cultures), Nicolas (Asian Languages and Cultures), Surasin (Asian Languages and Cultures), Suryani (Asian Languages and Cultures); Librarian Ashmun (Southeast Asia Collection, Memorial Library)

## WISCONSIN EXPERIENCE

As a regional center within the Institute for Regional and International Studies, we support and enhance international and global awareness in our student communities and inspire informed thinking about the complexities of our world. We encourage our students to connect to international networks and our regional communities through our program's lecture series, film screenings, and varied outreach events and activities. We encourage our students to study abroad, do international internships, learn

foreign languages, and expect them to gain an interdisciplinary grounding in global and regional affairs. We provide resources and expertise on our world area to students, and prospective students, and more broadly to K-12 teachers and students, postsecondary educators and graduate students, businesses, the media, the military, the community at large, and anyone else who wants it.

## RESOURCES AND SCHOLARSHIPS

Information about resources, scholarships and funding through the Center for Southeast Asian Studies is available from our website (<http://seasia.wisc.edu/>) on the "For Students" and the "Resources" tabs. We also encourage our students to explore funding options available through the Institute for Regional and International Studies (IRIS) Awards Office (<https://iris.wisc.edu/funding/>).

## INTEGRATED LIBERAL STUDIES

The mission of Integrated Liberal Studies (<https://ils.wisc.edu/>) (ILS) is to provide an integrated exploration of the great themes of human inquiry and expression in scientific, literary, political, economic, historical and artistic thought. As an alternative to scattered electives, ILS offers a set of related courses specially tailored to meet the breadth requirements of the College of Letters & Science. ILS draws exemplary, dynamic faculty from departments across campus to create courses that challenge students with a rigorous program of interdisciplinary study emphasizing critical thinking and judgment rather than passive absorption of information. Although these courses may be taken as single electives, the purpose of the program is to counter the fragmentation of undergraduate education by providing a common ground of learning.

Because ILS courses are interdisciplinary, students are encouraged to make connections between the various subject areas. They study the relations between literature and the arts; science, technology, and philosophy; and political, economic, and social thought. The content of the curriculum has been developed in the belief that historical perspective is required for a full understanding of contemporary issues. Courses numbered 201-206 progress from historical to contemporary topics in each of the three core areas. Those numbered 250 and above cover interdisciplinary special topics in the natural sciences, social sciences, and humanities, including "Magical Realism," "Modern Jewish Thought," and "Machiavelli and His World." ILS also includes a course (ILS 200 Critical Thinking and Expression) in Critical Thinking and Expression to sharpen communication and research skills necessary for college work. This course satisfies the university's Communications B requirement. ILS 400 Capstone Integration Seminar, a senior capstone seminar addressing an interdisciplinary topic, is required in order to complete the ILS certificate.

## DEGREES/MAJORS/CERTIFICATES

- Integrated Liberal Studies, Certificate (p. 1018)

## PEOPLE

### AFFILIATED FACULTY

Richard Avramenko, *Professor of Political Science; Director of the Center for the Study of Liberal Democracy*

William Aylward, *Professor of Classics; Herbert and Evelyn Howe Bascom Professor of Integrated Liberal Studies*

Beatriz Botero, *Lecturer of Integrated Liberal Studies*

Karen Britland, *Halls-Bascom Professor of English*

Chad Goldberg, *Professor of Sociology*

Florence C. Hsia, *Professor of History of Science; Associate Vice Chancellor for Research in the Arts and Humanities*

Dan Kapust, *Professor of Political Science, Judith Hicks Stiehm Chair in Political Theory*

Devin Kennedy, *Assistant Professor of History*

Timothy Lindstrom, *Lecturer of Environmental Studies; Student Intern Program Manager for the Nelson Institute*

Laura McClure, *Halls-Bascom Professor of Classical Literature Studies*

Grant A. Nelsestuen, *Professor of Classics; Director of ILS*

Adam Nelson, *Professor of Educational Policy Studies and History; Senior Associate Dean for Academic Programs, School of Education*

Kristin Phillips-Court, *Associate Professor of Italian and Art History*

Ulrich Rosenhagen, *Lecturer of History; Director of the Center for Religion and Global Citizenry*

Michelle Schwarze, *Associate Professor of Political Science*

Howard Schweber, *Professor of Political Science*

Basil Tikoff, *Professor of Structural Geology and Tectonics*

Mike Vanden Heuvel, *Professor of Interdisciplinary Theatre Studies*

John Zumbrunnen, *Professor of Political Science; Vice Provost for Teaching and Learning Administrative Staff*

### STAFF

Laura Bradley, *ILS Academic Advisor*

Grant Nelsestuen, *Director of ILS*

Beth Shipman, *Program Administrative Manager*

## INTEGRATED LIBERAL STUDIES, CERTIFICATE

The mission of Integrated Liberal Studies (<https://ils.wisc.edu/>) (ILS) is to provide an integrated exploration of the great themes of human inquiry and expression in scientific, literary, political, economic, historical and artistic thought. As an alternative to scattered electives, ILS offers a set of

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## HOW TO GET IN

### CERTIFICATE DECLARATION REQUIREMENTS

There are no prerequisites for declaring the Integrated Liberal Studies (ILS) certificate. Students interested in declaring the ILS certificate should contact the ILS Academic Advisor as early as possible to plan the required coursework.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate in Integrated Liberal Studies consists of two Core ILS courses, one additional ILS course, another non-ILS course from an approved list, and the ILS Capstone Experience seminar.

A total of 15 credits are required, of which 6 are in Core ILS courses, 3 in Integrative Breadth, 3 in Integrative Diversity, and 3 in the Capstone Experience.

### CORE ILS COURSES

Code	Title	Credits
<b>Complete any two of the following core ILS courses:</b>		<b>6</b>
ILS 200	Critical Thinking and Expression	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3
or HIST SCI 201	The Origins of Scientific Thought	
ILS 202	Western Culture: Science, Technology, Philosophy II	3
or HIST SCI 202	The Making of Modern Science	

ILS 203	Western Culture: Literature and the Arts I	3
ILS 204	Western Culture: Literature and the Arts II	3-4
ILS 205	Western Culture: Political, Economic, and Social Thought I	3
ILS 206	Western Culture: Political, Economic, and Social Thought II	3

## INTEGRATIVE BREADTH

Code	Title	Credits
<b>Excluding any ILS courses used towards the required Core ILS courses above, complete one additional ILS course from the following:</b>		
ILS 110	First-year Topics Seminar in Integrated Liberal Studies	3
ILS/ENVIR ST 126	Principles of Environmental Science	4
ILS 138 & ILS 139	CRC First-Year Seminar: Foundations of a Liberal Arts Education and CRC Special Seminar: Topics in the Liberal Arts	3
ILS 153	Ways of Knowing in the Sciences	4
ILS 200	Critical Thinking and Expression	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3
or HIST SCI 201	The Origins of Scientific Thought	
ILS 202	Western Culture: Science, Technology, Philosophy II	3
or HIST SCI 202	The Making of Modern Science	
ILS 203	Western Culture: Literature and the Arts I	3
ILS 204	Western Culture: Literature and the Arts II	3-4
ILS 205	Western Culture: Political, Economic, and Social Thought I	3
ILS 206	Western Culture: Political, Economic, and Social Thought II	3
ILS/RELIG ST 234	Genres of Western Religious Writing	3
ILS 251	Contemporary Physical Sciences	3
ILS 252	Contemporary Life Sciences	3
ILS 253	Literature and Society	3
ILS 254	Literature and Science	3
ILS/ENVIR ST 255	Introduction to Sustainability Science	4
ILS 298	Directed Study	3
ILS 299	Directed Study	3
ILS/ITALIAN 350	Rome: Lust for Glory	3-4
ILS/ITALIAN/LITTRANS/POLI SCI 365	Machiavelli and His World	3
ILS 367		
ILS 369	Magical Realism and Postmodernity	3
ILS 371	Interdisciplinary Studies in the Arts and Humanities	3

ILS 372	Interdisciplinary Studies in the Social Sciences	3
ILS/JEWISH/SOC 423	Modern Jewish Thought	3

## INTEGRATIVE DIVERSITY

Code	Title	Credits
<b>Complete any one non-ILS course from the following:</b>		
AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFRICAN/INTL ST 302	Arabic Literature and Cinema	3
AFRICAN 402	Theory of African Literature	3-4
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/HISTORY 322	Afro-American History to 1900	3-4
AFROAMER/RELIG ST 404	African American Religions	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO 424	Historical Anthropology	3
ART HIST/CLASSICS 300	The Art and Archaeology of Ancient Greece	3-4
ART HIST 301	Myths, Loves, and Lives in Greek Vases	3-4
ART HIST 302	Greek Sculpture	3-4
ART HIST/CLASSICS 304	The Art and Archaeology of Ancient Rome	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST 310	Icons, Religion, and Empire: Early Christian and Byzantine Art, ca. 200-1453	3
ART HIST 318	Romanesque and Gothic Art and Architecture	3-4
ART HIST 331	Angels, Demons, and Nudes: Early Netherlandish Painting from Bosch to Bruegel	3-4
ART HIST 346	British Art and Society from the Eighteenth Century to the Present	3
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
ART HIST 355	History of Photography	3
ART HIST 357	History of Wisconsin Architecture, 1800-present	3
ART HIST 360	Gore Luxury Identity Mimesis: Northern Renaissance	3

ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607-present	3-4	CURRIC/ CHICLA 306	Latinx Literacies	3
ART HIST 365	The Concept of Contemporary Art	3-4	CURRIC/ CHICLA 321	Chicano/Latino Educational Justice	3
ART HIST 372	Arts of Japan	3-4	CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ART HIST/ RELIG ST 373	Great Cities of Islam	3	CURRIC/ED POL/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3
ART HIST/ ASIAN 379	Cities of Asia	3	ECON/HIST SCI 305	Development of Economic Thought	3-4
ART HIST 405	Cities and Sanctuaries of Ancient Greece	3	ENGL 224	Introduction to Poetry	3
ART HIST 413	Art and Architecture in the Age of the Caliphs	3	ENGL 241	Literature and Culture I: to the 18th Century	3
ART HIST/ ASIAN 428	Visual Cultures of India	3	ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
ART HIST 440	Art and Power in the Arab World	3	ENGL/ GEN&WS 250	Women in Literature	3
ASIAN/ HISTORY 337	Social and Intellectual History of China, 589 AD-1919	3-4	ENGL 328	The Sixteenth Century	3
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	3	ENGL 331	Seventeenth-Century Literature and Culture	3
ASTRON/ HIST SCI 206	History of Astronomy and Cosmology	3	ENGL 334	Eighteenth Century Literature and Culture	3
CLASSICS/ JEWISH/LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	4	ENGL 335	Stage and Page in the Long Eighteenth Century	3
CLASSICS/ ART HIST 300	The Art and Archaeology of Ancient Greece	3-4	ENGL 336	Eighteenth-Century Novel	3
CLASSICS/ ART HIST 304	The Art and Archaeology of Ancient Rome	3-4	ENGL 345	Nineteenth-Century Novel	3
CLASSICS 308	Sex and Violence in the Ancient Near East	3	ENGL 353	British Literature since 1900	3
CLASSICS 321	The Egyptians: History, Society, and Literature	3	ENGL 357	Major American Poets	3
CLASSICS/HEBR- BIB/JEWISH/ LITTRANS/ RELIG ST 332	Prophets of the Bible	4	ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
CLASSICS/JEWISH/ RELIG ST 335	King David in History and Tradition	3	ENGL 361	Modern and Contemporary American Literature	3
CLASSICS 340	Conspiracy in the Ancient and Modern Worlds	3	ENGL/CHICLA 368	Chicana/o and Latina/o Literatures	3
CLASSICS/ GEN&WS 351	Women and Gender in the Classical World	3-4	ENGL 374	African and African Diaspora Literature and Culture	3
CLASSICS/ GEN&WS 361	Sex and Power in Greece and Rome	3	ENGL 375	Literatures of Migration and Diaspora	3
CLASSICS 420	Ancient Texts, Modern Contexts	3	ENGL/ MEDIEVAL 427	Chaucer's Canterbury Tales	3
CLASSICS/ HISTORY/ RELIG ST 517	Religions of the Ancient Mediterranean	3	ENGL 431	Early Works of Shakespeare	3
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	3	ENGL 432	Later Works of Shakespeare	3
COM ARTS 370	Great Speakers and Speeches	3	ENGL 433	Spenser	3
COMP LIT 350	Problems in Comparative Literatures and Cultures	3-4	ENGL/ RELIG ST 434	Milton	3
CURRIC 277	Videogames & Learning	3	ED POL/ HISTORY 412	History of American Education	3
			ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	3
			ED POL/ HISTORY 612	History of Student Activism from the Popular Front to Black Lives Matter	3
			ED POL 505	Issues in Urban Education in the U.S.	3
			ED POL/CURRIC/ RELIG ST 516	Religion and Public Education	3
			ED POL/ GEN&WS 560	Gender and Education	3
			ED POL 595	Language Politics and Education	3

ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3	HISTORY 340	Cultural History of Korea	3-4
ED POL/ HISTORY 665	History of the Federal Role in American Education	3	HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
GEOG 301	Revolutions and Social Change	3	HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4
GEOG 318	Introduction to Geopolitics	3	HISTORY/ GEN&WS 346	Trans/Gender in Historical Perspective	3-4
GEOG 342	Geography of Wisconsin	3	HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
GEOG/AMER IND/ ENVIR ST 345	Managing Nature in Native North America	3	HISTORY 351	Seventeenth-Century Europe	3-4
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
GEOG 501	Space and Place: A Geography of Experience	3	HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
GEOG 518	Power, Place, Identity	3	HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
GEOG 566	History of Geographic Thought	3	HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
HIST SCI 222	Technology and Social Change in History	3	HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HIST SCI/ HISTORY 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY/ ENVIR ST 369	Thinking through History with Animals	3-4
HIST SCI/ HISTORY 324	Science in the Enlightenment	3	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HIST SCI 343	The Darwinian Revolution	3	HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HIST SCI 404	A History of Disease	3-4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HIST SCI/MED HIST/ POP HLTH 553	International Health and Global Society	3	HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4	HISTORY 417	History of Russia	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4	HISTORY 418	History of Russia	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY 303	A History of Greek Civilization	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY 306	The United States Since 1945	3-4	HISTORY 444	History of East Africa	3-4
HISTORY 307	A History of Rome	3-4	HISTORY 450	Making of Modern South Asia	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4	HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ GEN&WS 315	Gender, Race and Colonialism	3	HISTORY/ ENVIR ST 465	Global Environmental History	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	3-4			
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4			

HISTORY/ GEN&WS 519	Sexuality, Modernity and Social Change	3
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
LEGAL ST/ HISTORY 261	American Legal History to 1860	3-4
LEGAL ST/ HISTORY 262	American Legal History, 1860 to the Present	3-4
LEGAL ST/ HISTORY 459	Rule of Law: Philosophical and Historical Models	3-4
LEGAL ST/ HISTORY 510	Legal Pluralism	3
LITTRANS 220	Chekhov: The Drama of Modern Life	3
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	3
LITTRANS 222	Dostoevsky in Translation	3-4
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3
LITTRANS 224	Tolstoy in Translation	3-4
LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	3
LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
LITTRANS/ MEDIEVAL 255	Black Death and Medieval Life Through Boccaccio's Decameron	3
LITTRANS 302	What is Life? Biological Life in Literature and Culture	3-4
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
LITTRANS/ SCAND ST 428	Memory and Literature from Proust to Knausgard	3
PHILOS 220	Philosophy and the Sciences	3-4
PHILOS 241	Introductory Ethics	3-4
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS 430	History of Ancient Philosophy	3-4
PHILOS 432	History of Modern Philosophy	3-4
PHILOS 516	Language and Meaning	3
PHILOS/ ENVIR ST 523	Philosophical Problems of the Biological Sciences	3
PHILOS 530	Freedom Fate and Choice	3
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 551	Philosophy of Mind	3
PHILOS 555	Political Philosophy	3
POLI SCI 356	Principles of International Law	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 463	Deception and Politics	4
POLI SCI/ AFROAMER 519	African American Political Theory	3-4

RELIG ST/ ENVIR ST 270	The Environment: Religion & Ethics	3-4
RELIG ST 300	America and Religions	3
RELIG ST 302	Christianity: Interpretation and Practice	3
RELIG ST/ GEN&WS 305	Women, Gender and Religion	3
RELIG ST 311	Sects and Cults	3
RELIG ST/JEWISH/ LITTRANS 328	Classical Rabbinic Literature in Translation	3-4
RELIG ST 333	Early Christian Literature: Matthew-Revelation	3
RELIG ST/ AFROAMER 404	African American Religions	3

## CAPSTONE EXPERIENCE

Code	Title	Credits
<b>Complete the ILS Capstone Experience:</b>		<b>3</b>
ILS 400	Capstone Integration Seminar	3

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA with all courses taken on graded basis
- 8 credits in the certificate, in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Identify and explain how people make meaning across times, cultures, media, and disciplines.
2. Critically analyze diverse approaches to how people make meaning in the past and present.
3. Recognize and synthesize diverse types of knowledge and disciplinary approaches to how people make meaning.
4. Formulate new questions about and integrate new approaches to how people make meaning.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

The Integrated Liberal Studies (ILS) academic advisor can help you create a meaningful course plan and stay on track as you complete the certificate requirements. We recommend that you connect with the ILS advisor as early as possible. The advisor is available to consult on a variety of topics including: declaring the certificate, course selection, exploring how ILS courses fit with breadth and general education degree requirements, campus resources, and getting the most from your Wisconsin Experience.

### CONTACT INFORMATION

**Laura Bradley**  
Integrated Liberal Studies Academic Advisor

lsbradley@wisc.edu  
201 Meiklejohn House  
<http://www.ils.wisc.edu>

## CAREER INFORMATION

The Integrated Liberal Studies Program encourages certificate students to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks in the College of Letters & Science to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### AFFILIATED FACULTY

Richard Avramenko, *Professor of Political Science; Director of the Center for the Study of Liberal Democracy*

William Aylward, *Professor of Classics; Herbert and Evelyn Howe Bascom Professor of Integrated Liberal Studies*

Beatriz Botero, *Lecturer of Integrated Liberal Studies*

Karen Britland, *Halls-Bascom Professor of English*

Chad Goldberg, *Professor of Sociology*

Florence C. Hsia, *Professor of History of Science; Associate Vice Chancellor for Research in the Arts and Humanities*

Dan Kapust, *Professor of Political Science, Judith Hicks Stiehm Chair in Political Theory*

Devin Kennedy, *Assistant Professor of History*

Timothy Lindstrom, *Lecturer of Environmental Studies; Student Intern Program Manager for the Nelson Institute*

Laura McClure, *Halls-Bascom Professor of Classical Literature Studies*

Grant A. Nelsestuen, *Professor of Classics; Director of ILS*

Adam Nelson, *Professor of Educational Policy Studies and History; Senior Associate Dean for Academic Programs, School of Education*

Kristin Phillips-Court, *Associate Professor of Italian and Art History*

Ulrich Rosenhagen, *Lecturer of History; Director of the Center for Religion and Global Citizenry*

Michelle Schwarze, *Associate Professor of Political Science*

Howard Schweber, *Professor of Political Science*

Basil Tikoff, *Professor of Structural Geology and Tectonics*

Mike Vanden Heuvel, *Professor of Interdisciplinary Theatre Studies*

John Zumbrunnen, *Professor of Political Science; Vice Provost for Teaching and Learning Administrative Staff*

## STAFF

Laura Bradley, *ILS Academic Advisor*

Grant Nelsestuen, *Director of ILS*

Beth Shipman, *Program Administrative Manager*

## WISCONSIN EXPERIENCE

## "A SMALL LIBERAL ARTS EXPERIENCE WITHIN A GREAT UNIVERSITY"

**ILS is not only a certificate, but a community on campus. The program strives to create a place where students can take multiple classes with the same group of peers and develop lasting relationships. It's like a FIG (first-year interest group) throughout the entire undergraduate experience.**

"The University of Wisconsin needs programs like ILS to give students the indispensable liberal arts experience and I am happy that it was part of my experience here on campus." Brett Tietz (2015 ILS graduate)

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"I love that the history and literature I learn in my ILS courses makes me a better conversationalist." Paul Sutherland (2015 ILS graduate)

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"I love ILS because there is so much to learn. Through ILS I was able to trace the history of science from natural philosophy all the way up to Newtonian physics, and the impact of science on the contemporary art & literature. I really enjoyed being able to study the humanities, and the insights these classes have provided me on the interaction between science and culture. The program was a great way for me to study things that I am interested in, but are unrelated to my major, such as astronomy, geology, philosophy, literature, art history, geopolitics." Brad Glasco (2015 ILS graduate)

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"The main goal of ILS is to get its students to recognize how different subjects of knowledge connect with one another. Our student-led class in our ILS capstone attempted to accomplish this goal through the topic of tattoos. By reading articles and books on tattoos, witnessing a classmate receive a tattoo, interviewing veteran tattoo artists in the field, debating case studies, and discussing stigmas and stereotypes of tattoos, we wove together knowledge from history, psychology, sociology, criminology, philosophy, and art. My views about tattoos, and people who choose to get them, will be forever better informed. I will always remember my classmates and this capstone!" Ryan Fleming (2015 ILS graduate)

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"Virtually every ILS class threatens to fundamentally change the way you see the world." Eric Schmidt, political science major

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"Some of the best professors on campus teach ILS classes, and they love the program as much as the students! How many other programs offer Aristophanes, Nietzsche and Jon Stewart in the same class?" Jeff Landow, English major

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## RESOURCES AND SCHOLARSHIPS

**ILS offers multiple scholarship and award opportunities for declared certificate students.**

### MEIKLEJOHN TRAVEL AWARD UP TO \$1500

Named for Alexander Meiklejohn, founder of the University of Wisconsin Experimental College (1927–32), the forerunner to the ILS program, this prize is intended to help support an ILS student in a university-sponsored or an independent program of education-centered travel or study abroad, taking place during the summer or academic year (or in the United States if the destination is remote from the student's home or the campus).

### POOLEY PRIZE UP TO \$2,000 EACH (BASED ON AVAILABLE FUNDS)

Named for Professor Robert Pooley, the first chair of the Integrated Liberal Studies program (1948), this prize is given annually to outstanding ILS students on the basis of:

- academic achievement (GPA of at least 3.0 for the 3 preceding semesters),
- evidence of good character,
- student leadership in the ILS program, including involvement in extracurricular activities, and
- available for travel purposes relating to their ILS courses.

## RUTH KNATZ MEMORIAL PRIZE UP TO \$5,000 (BASED ON AVAILABLE FUNDS)

Named for Ruth Knatz Gross Wisnewsky and given by her husband, Edward Wisnewsky, this prize will be given only to a truly outstanding student who:

- is majoring in at least one humanities discipline (including history and history of science, but not social science or science); this means you may be double-majoring in one non-humanities major, but the other must be a humanities major,
- gives promise of making a valuable contribution to the humanities,
- has done exemplary work in their ILS courses,
- has achieved junior or senior standing, and
- has signed up for the certificate and plans to complete the ILS certificate program.

## INTEGRATIVE BIOLOGY

### RESEARCH AND EDUCATION

With 19 faculty and 14 affiliated faculty members from campus, research, and education, the Department of Integrative Biology spans all levels of biological organization (from the molecular level to whole ecosystems and regions), considers a diverse range of taxa (microbes, plants, animals) and systems (terrestrial, aquatic), and addresses a wide array of basic and applied research questions. The Department of Integrative Biology is committed to providing the best training and education in the field of biology for UW–Madison undergraduate and graduate students.

### MAJORS

As one of the largest departments in the College of Letters & Science, the Department of Integrative Biology is home to the biology (L&S), molecular biology, neurobiology, and zoology undergraduate majors. Nearly 2,500 students enroll in our introductory biology courses (BIOLOGY/ZOOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory; BOTANY/BIOLOGY/ZOOLOGY 151 Introductory Biology/ZOOLOGY 153 Introductory Biology 153 and ZOOLOGY/BIOLOGY/BOTANY 152 Introductory Biology), and another 1,000 students enroll in a variety of courses in the field of biology.

## DEGREES/MAJORS/CERTIFICATES

- Biology, B.A. (L&S) (p. 1025)
- Biology, B.S. (L&S) (p. 1044)
- Molecular and Cell Biology, B.A. (p. 1061)
- Molecular and Cell Biology, B.S. (p. 1067)
- Neurobiology, B.A. (p. 1073)
- Neurobiology, B.S. (p. 1079)



- Zoology, B.A. (p. 1086)
- Zoology, B.S. (p. 1091)

## PEOPLE

Please visit the Faculty (<https://integrativebiology.wisc.edu/faculty/>) and Affiliate Faculty (<https://integrativebiology.wisc.edu/affiliated-faculty/>) pages on the Integrative Biology website for information about our faculty and their research areas.

## BIOLOGY, B.A. (L&S)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain preprofessional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists; and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Letters & Science and the College of Agricultural and Life Sciences.

## HOW TO GET IN

Students interested in declaring the biology major should set up an appointment to speak with biology academic advisor. Information can be found at advising (<http://biologymajor.wisc.edu/advising/>).

Students who intend to major in Biology in either the College of Letters and Science (L&S) or the College of Agricultural and Life Sciences (CALS) may not combine this major ("double major") with the Molecular and Cell Biology Major or the Neurobiology Major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced work Complete at least 60 credits at the intermediate or advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Additional Lab or Field Research requirements.

Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

In addition to the standard Biology major, there are two Named Options: Biology with a Named Option in Evolutionary Biology and Biology with a Named Option in Plant Biology. Admissions to the Named Option in Plant Biology is suspended as of Fall 2021.

Students may complete only one Biology major/named option and must declare the named option they are pursuing.

## CORE REQUIREMENTS

### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

### Chemistry

Code	Title	Credits
<i>General Chemistry (Complete one of the following):</i>		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<i>Organic Chemistry</i>		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

### Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
<b>Total Credits</b>		<b>10-13</b>

### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3

## UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from an unused category (A, B, C, D or E).

### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3
CRB 650	Molecular and Cellular Organogenesis	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3
DERM 601	Skin Biology and Skin Diseases	3
GENETICS 466	Principles of Genetics	3

GENETICS 467	General Genetics 1	3
GENETICS 520	Neurogenetics	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
GENETICS 588	Immunogenetics	3
MICROBIO 607	Advanced Microbial Genetics	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
NEURODPT/ NTP 610	Cellular and Molecular Neuroscience	4
NEURODPT/NTP/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NEURODPT/ NTP 629	Molecular and Cellular Mechanisms of Memory	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY 655	Modeling Neurodevelopmental Disease	3

### B. Organismal Biology

Code	Title	Credits
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
ANAT&PHY 335	Physiology <sup>1</sup>	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory <sup>1</sup>	2
ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	5



ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2

#### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
PSYCH 449	Animal Behavior	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3

#### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2

AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2

HORT 378	Tropical Horticultural Systems International Field Study	2
M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

## ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course and at least two credits from categories A-E in the Upper-Level Breadth in the Major course lists, **or**
- Complete at least two credits of directed study in a biological science discipline, or
- Complete a two-semester thesis in biological science.<sup>2</sup>

### Approved Directed Study courses

To have Directed Study count for the Additional Lab/Field Research requirement, students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
DY SCI 699	Special Problems	
ENTOM 699	Special Problems	
FAM MED 699	Directed Study	
FOOD SCI 699	Special Problems	
F&W ECOL 699	Special Problems	
GENETICS 699	Special Problems	
H ONCOL 699	Independent Study in Human Cancer Biology	
HORT 699	Special Problems	
M&ENVTOX 699	Special Problems	

MEDICINE 699	Independent Study
MED SC-V 699	Directed Study
MICROBIO 699	Special Problems
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURODPT 699	Directed Study
NEUROL 699	Directed Research in Neurology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NURSING 699	Directed Study in Nursing
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

### Approved Thesis sequences

Code	Title	Credits
AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis	
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis	
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis	

F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
PATH-BIO 681 & PATH-BIO 682	Senior Honors Thesis I and Senior Honors Thesis II
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

## BIOLOGY NAMED OPTIONS

Instead of completing the requirements above, students may choose to select one of the options below.

View as list [View as grid](#)

- **BIOLOGY: EVOLUTIONARY BIOLOGY (P. 1052)**
- **BIOLOGY: PLANT BIOLOGY (P. 1058)**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence<sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Biology major with permission of the major advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in the major
- Complete 13 credits from Foundation and Upper-Level Breadth in the Major requirements, taken for Honors
- Complete an approved two-semester Senior Honors Thesis for a total of 6 credits

## FOOTNOTES

1

Course also approved for lab credit

2

Foundation and Upper-Level Breadth in the Major are considered Upper-Level for purposes of this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Know and understand core concepts that unify the breadth of biological sciences including: evolution; structure and function; information flow, exchange, and storage; pathways for transformations of energy and matter; and systems.
2. Demonstrate practical skills of a professional biologist including: problem-solving by engaging the process of science; written and verbal proficiency; laboratory skills; quantitative analysis skills; and teamwork skills.
3. Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Four-year Plans for the Biology major are designed to support biological science major exploration and planning your academic career. Your specific program of study could, and probably will, look different. You should customize the Four-Year Plan to fit your unique interests at UW–Madison. Consult with your advisor about the best plan for you.

### SAMPLE BIOLOGY MAJOR FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103		4 CHEM 104	5
MATH 221 <sup>1</sup>		5 MATH 222 or STAT 371 <sup>1</sup>	4
Communication A		3 Literature Breadth	3
Social Science Breadth		3 Ethnic Studies/Social Science Breadth	3
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>2</sup>		5 BIOLOGY/BOTANY/ ZOOLOGY 152 <sup>2</sup>	5
CHEM 343		3 CHEM 344	2
Literature Breadth		3 CHEM 345	3
Social Science Breadth		3 Humanities Breadth	3
INTER-LS 210		1 Elective	2
	<b>15</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Foundation Course for Major		3 Upper-Level Breadth in the Major	4
PHYSICS 103		4 PHYSICS 104	4
Social Science Breadth		3 Humanities Breadth	3
Electives		5 Electives	4
Declare the Major			
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major		3 Upper-Level Breadth in the Major	6
Upper-Level Breadth in the Major Lab or Field Research		3 Additional Lab or Field Research	2

Electives	9 Electives	7
	<b>15</b>	<b>15</b>

#### Total Credits 120

#### 1

Follow the guidance of Math placement scores when choosing a Mathematics and/or Statistics course.

#### 2

Students may complete one of three Introductory Biology sequences. See the Requirements tab for more information.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<https://advising.wisc.edu/soar/advising-101/>).

In the biology major, students are assigned to an adviser according to last name. Please visit us here (<http://biologymajor.wisc.edu/advising/>) to schedule an advising appointment.

### CAREERS

The biology major encourages our students to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:



- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

credit or pay, depending on the opportunity. Research opportunities can be identified by inquiring directly (<https://biology.wisc.edu/finding-mentor/>) with faculty members, reading the *Biology Major Newsletter*, or announcement on the Student Job Center (<https://jobcenter.wisc.edu/>).

## BIOLOGY: EVOLUTIONARY BIOLOGY

The **Evolutionary Biology Option** allows biology majors to concentrate their studies in evolution and to have this reflected on their transcript. Since there is no evolutionary biology major available at UW-Madison, this is the only mechanism to indicate specialization in this rapidly growing and popular field. In taking this option students will be able to fulfill their intermediate/advanced biology requirement with courses that emphasize evolutionary biology, ranging from required courses in fundamental evolutionary biology to more advanced optional courses that cover a wide range of evolutionary biology topics. They will also get to take a one-credit seminar course in evolutionary biology.

Who should enroll in this option? Students with broad interest in the biological sciences who want to:

- Prepare for graduate study in evolutionary biology or related fields
- Prepare for professional studies (e.g. medical school, veterinary school, dentistry)
- Concentrate their biological studies in evolutionary biology

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, Additional Lab or Field Research, and Evolutionary Biology Seminar requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

### CORE REQUIREMENTS

#### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**Total Credits**

**8-14**

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Brian Asen  
 Carley Garvens  
 Sarah Kuba, Program Director  
 Brittany Magrady  
 Damien Parks

### BIOLOGY MAJOR PROGRAM COMMITTEE

(voting members)

Joseph Dillard  
 Stephen Gammie, L&S Co-Chair  
 Irwin Goldman, Plant Biology Named Option Representative  
 Anna Kowalkowski  
 Sarah Kuba, ex officio  
 Kate McCulloh  
 Timothy Paustian, ex officio  
 Federico Rey  
 Nathaniel Sharp, Evolutionary Biology Named Option Representative  
 Sharon Thoma, ex officio  
 Jon Woods  
 Jae-Hyuk Yu, CALS Co-Chair

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biology, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- Many study abroad programs offer a plethora of excellent upper level bioscience courses. Students often complete courses abroad that meet upper-level breadth in the major requirements (categories A-E) while others use this opportunity to focus on non-science coursework and explore other topics that interest them. Review the Biology Major advising page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biology/>) on the Study Abroad website to explore international academic programs.
- Students are encouraged to get involved in research in any life science department. Research can be performed for either course

**Chemistry**

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

**Physics**

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

**Introductory Biology**

Code	Title	Credits
Complete one sequence:		10-13
Option A:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		13
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		10
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

**Foundation Course (complete one of the following):**

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

**UPPER-LEVEL BREADTH IN THE MAJOR**

Minimum of 13 credits required as follows and must include **one approved lab course**. (Approved lab courses are indicated by footnote). A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete the Evolutionary Biology course
- Complete at least two credits from either category A or B.
- Complete at least two credits from category C.
- Complete at least two credits from category D.
- Additional courses needed to reach 13 credits Upper-Level Breadth in the Major may be taken from any category (A, B, C, D, E).

**Required Evolutionary Biology course**

Code	Title	Credits
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	3

**A. Cellular and Subcellular Biology**

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3

BIOCHEM/ BOTANY 621	Plant Biochemistry	3	ZOOLOGY 655	Modeling Neurodevelopmental Disease	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2	<b>B. Organismal Biology</b>		
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3	AN SCI/DY SCI 373	Animal Physiology	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3	AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
CRB 650	Molecular and Cellular Organogenesis	3	AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3	AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
DERM 601	Skin Biology and Skin Diseases	3	ANAT&PHY 335	Physiology <sup>1</sup>	5
GENETICS 466	Principles of Genetics	3	ANAT&PHY 337	Human Anatomy	3
GENETICS 467	General Genetics 1	3	ANAT&PHY 338	Human Anatomy Laboratory	2
GENETICS 520	Neurogenetics	3	ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	5
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3	ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
GENETICS 588	Immunogenetics	3	BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
MICROBIO 607	Advanced Microbial Genetics	3	BOTANY 300	Plant Anatomy <sup>1</sup>	4
MICROBIO 470	Microbial Genetics & Molecular Machines	3	BOTANY 330	Algae <sup>1</sup>	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3	BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
M M & I 341	Immunology	3	BOTANY/ PL PATH 333	Biology of the Fungi	2
M M & I/PATH- BIO 528	Immunology	3	BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
NEURODPT/NTP/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4	BOTANY 500	Plant Physiology <sup>1</sup>	3-4
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4	CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3	DY SCI 378	Lactation Physiology <sup>1</sup>	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3	ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3	ENTOM 321	Physiology of Insects	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3	ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3	F&W ECOL 401	Physiological Animal Ecology	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2	GENETICS 545	Genetics Laboratory <sup>1</sup>	2
ZOOLOGY 470	Introduction to Animal Development	3	GENETICS/ MD GENET 565	Human Genetics	3
ZOOLOGY/ PSYCH 523	Neurobiology	3	GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3	KINES 314	Physiology of Exercise <sup>1</sup>	4
ZOOLOGY 570	Cell Biology	3	MICROBIO 303	Biology of Microorganisms	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab <sup>1</sup>	2	MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2	MICROBIO 330	Host-Parasite Interactions	3
			MICROBIO 526	Physiology of Microorganisms	3
			M M & I 301	Pathogenic Bacteriology	2
			M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
			NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
			NTP/ZOOLOGY 620	Neuroethology Seminar	2

NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NUTR SCI 431	Nutrition in the Life Span	3
NUTR SCI 631	Clinical Nutrition I	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 606	Hormones and Behavior	3
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3

F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
PSYCH 449	Animal Behavior	3-4
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2

ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2

FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
NUTR SCI 332	Human Nutritional Needs	3
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHM COL-M/ POP HLTH 625	Toxicology I	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

### ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course from categories A-E in the Upper-Level Breadth in the Major course lists, **or**
- Complete at least 2 credits of directed study in a biological science discipline, **or**
- Complete a two-semester thesis in biological science.

### Approved Directed Study Courses

To have Directed Study count for the Additional Lab/Field Research requirement students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	

COMP BIO 699	Directed Study
CRB 699	Independent Study
DY SCI 699	Special Problems
ENTOM 699	Special Problems
FAM MED 699	Directed Study
FOOD SCI 699	Special Problems
F&W ECOL 699	Special Problems
GENETICS 699	Special Problems
HORT 699	Special Problems
M&ENVTOX 699	Special Problems
MEDICINE 699	Independent Study
MED SC-V 699	Directed Study
MICROBIO 699	Special Problems
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURODPT 699	Directed Study
NEUROL 699	Directed Research in Neurology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NURSING 699	Directed Study in Nursing
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

### Approved Thesis Sequences

Code	Title	Credits
<i>Approved Thesis sequences:</i>		
AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	

BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis
F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
PATH-BIO 681 & PATH-BIO 682	Senior Honors Thesis I and Senior Honors Thesis II
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

### EVOLUTIONARY BIOLOGY SEMINAR

Code	Title	Credits
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence<sup>2</sup>
- 15 credits in the major, taken on the UW–Madison campus

## FOOTNOTES

1

Course also approved for lab credit

2

Foundation and Upper-Level Breadth in the Major courses are considered Upper-Level for purposes of this requirement.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Four-year Plans for the Biology major are designed to support biological science major exploration and planning your academic career. Your specific program of study could, and probably will, look different. You should customize the Four-Year Plan to fit your unique interests at UW–Madison. Consult with your advisor about the best plan for you.

### SAMPLE EVOLUTIONARY BIOLOGY OPTION FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103		4 CHEM 104	5
MATH 221 <sup>1</sup>		5 STAT 371 or 301 <sup>1</sup>	3
Communication A		3 Literature Breadth	3
Social Science Breadth		3 Ethnic Studies/Social Science Breadth	3
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>2</sup>		5 BIOLOGY/BOTANY/ ZOOLOGY 152 <sup>2</sup>	5
CHEM 343		3 CHEM 344	2
Literature Breadth		3 CHEM 345	3
Social Science Breadth		3 Humanities Breadth	3
INTER-LS 210		1 Elective	3
	<b>15</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
GENETICS 466		3 ZOOLOGY/ANTHRO/ BOTANY 410	3
PHYSICS 103		4 BIOLOGY/ GENETICS 522	2-3
Social Science Breadth		3 PHYSICS 104	4
Electives		5 Humanities Breadth	3
Declare the Major		Electives	2-3
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major		3 Upper-Level Breadth in the Major	6
Upper-Level Breadth in the Major Lab or Field Research		3 Additional Lab or Field Research	2
Electives		9 Electives	7
	<b>15</b>		<b>15</b>

#### Total Credits 120

1

Follow the guidance of Math placement scores when choosing a Mathematics and/or Statistics course.

2

Students may complete one of three Introductory Biology sequences. See the Requirements tab for more information.

## BIOLOGY: PLANT BIOLOGY

**Admissions to the Biology: Plant Biology, B.A. named option have been suspended as of fall 2021 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

The **Plant Biology Named Option** allows biology majors to focus their studies on plant science and to have this reflected on their transcript. There are a number of departments at UW–Madison who host plant science–based majors, including agronomy, botany, horticulture, plant pathology, and forest and wildlife ecology. While those specialized majors offer in-depth programs in their disciplines, the Plant Biology Named Option allows students to pursue a course of study within the biology major and explore plant biology at the same time. Students in this option can fulfill their requirements with courses that emphasize various aspects of plant science, including anatomy, physiology, genetics, crop production, disease resistance, and molecular techniques in plant improvement. Students also participate in a one-credit seminar called *Frontiers in Plant Science* taught by two faculty from plant science departments.

Who should enroll in this option? Students with broad interest in biological sciences who also want to:

- Prepare for graduate work in a plant science field
- Prepare for advanced study or graduate work in a natural or environmental science field
- Concentrate their studies on the biology of plants

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Additional Lab or Field Research requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

#### CORE REQUIREMENTS

##### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**Total Credits** **8-14**

##### Chemistry

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

**Total Credits** **13-18**

##### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	

**Total Credits** **8-10**

#### Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13

Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

#### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

#### UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from category E.

#### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3



BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 570	Computational Modeling of Biological Systems	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3

## B. Organismal Biology

Code	Title	Credits
BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

## C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3

## D. Evolution and Systematics

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
GENETICS 468	General Genetics 2	3

## E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3

PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

## ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course and at least two credits from categories A–E in the Upper-Level Breadth in the Major course lists, or
- Complete at least two credits of directed study in a biological science discipline, or
- Complete a two-semester thesis in biological science.

## Approved Directed Study Courses

To have Directed Study count for the Additional Lab/Field Research requirement, students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
DY SCI 699	Special Problems	
ENTOM 699	Special Problems	
FAM MED 699	Directed Study	
FOOD SCI 699	Special Problems	
F&W ECOL 699	Special Problems	
GENETICS 699	Special Problems	
HORT 699	Special Problems	
M&ENVTOX 699	Special Problems	
MEDICINE 699	Independent Study	
MED SC-V 699	Directed Study	
MICROBIO 699	Special Problems	
M M & I 699	Directed Study	
MOL BIOL 699	Directed Studies in Molecular Biology	
NEURODPT 699	Directed Study	
NEUROL 699	Directed Research in Neurology	
NEURSURG 699	Neurosurgery: Directed in Study in Research	
NURSING 699	Directed Study in Nursing	
NUTR SCI 699	Special Problems	
OBS&GYN 699	Directed Study	
ONCOLOGY 699	Special Research Problems	
OPHTHALM 699	Directed Study	

PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

## Approved Thesis Sequences

Code	Title	Credits
AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis	
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis	
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis	
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis	
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2	
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2	
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis	
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis	

MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

## UNDERGRADUATE PLANT SCIENCE SEMINAR

Code	Title	Credits
Complete one of the following:		
AGRONOMY 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar)	1-4
BIOCHEM 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar)	1-4
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence <sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## FOOTNOTES

<sup>1</sup>  
Course also approved for lab credit

<sup>2</sup>  
Foundation and Upper-Level Breadth in the Major courses are considered Upper-Level for purposes of this requirement.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in

athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Four-year Plans for the Biology major are designed to support biological science major exploration and planning your academic career. Your specific program of study could, and probably will, look different. You should customize the Four-Year Plan to fit your unique interests at UW-Madison. Consult with your advisor about the best plan for you.

### SAMPLE PLANT BIOLOGY OPTION FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103		4 CHEM 104	5
MATH 221 <sup>1</sup>		5 MATH 222 or STAT 371 <sup>1</sup>	4
Communication A		3 Literature Breadth	3
Social Science Breadth		3 Ethnic Studies/Social Science Breadth	3
		<b>15</b>	<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ZOOLOGY 151 <sup>2</sup>		5 BIOLOGY/BOTANY/ZOOLOGY 152 <sup>2</sup>	5
CHEM 343		3 CHEM 344	2
Literature Breadth		3 CHEM 345	3
Social Science Breadth		3 Humanities Breadth	3
INTER-LS 210		1 Elective	2
		<b>15</b>	<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Foundation Course for Major		3 Upper-Level Breadth in the Major	3
PHYSICS 103		4 PHYSICS 104	4
Social Science Breadth		3 Plant Science Seminar	1
Electives		5 Humanities Breadth	3
Declare the Major		Electives	4
		<b>15</b>	<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major		3 Upper-Level Breadth in the Major	5
Upper-Level Breadth in the Major Lab or Field Research		3 Additional Lab or Field Research	2
Electives		9 Electives	8
		<b>15</b>	<b>15</b>

#### Total Credits 120

<sup>1</sup>  
Follow the guidance of Math placement scores when choosing a Mathematics and/or Statistics course.

## 2

Students may complete one of three Introductory Biology requirements. See the Requirements tab for more information.

## BIOLOGY, B.S. (L&S)

The biology major is designed for students with broad interests in the biological sciences. It is intended primarily to:

1. prepare undergraduates for graduate studies in diverse areas of biology;
2. prepare certain preprofessional students (e.g., medicine, veterinary medicine, dentistry) for advanced study in the health professions;
3. provide a broad exposure to biology for students who want a general science education as biologists; and
4. serve as initial preparation for students who later choose a more specialized major.

The major is offered by the College of Letters & Science and the College of Agricultural and Life Sciences.

### HOW TO GET IN

Students interested in declaring the biology major should set up an appointment to speak with biology academic advisor. Information can be found at advising (<http://biologymajor.wisc.edu/advising/>).

Students who intend to major in Biology in either the College of Letters and Science (L&S) or the College of Agricultural and Life Sciences (CALS) may not combine this major ("double major") with the Molecular and Cell Biology Major or the Neurobiology Major.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

#### General Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Additional Lab or Field Research requirements.

Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

In addition to the standard Biology major, there are two Named Options: Biology with a Named Option in Evolutionary Biology and Biology with a Named Option in Plant Biology. Admissions to the Named Option in Plant Biology is suspended as of Fall 2021.

Students may complete only one Biology major/named option and must declare the named option they are pursuing.

## CORE REQUIREMENTS

### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

### Chemistry

Code	Title	Credits
<i>General Chemistry (Complete one of the following):</i>		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<i>Organic Chemistry</i>		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5

PHYSICS 104	General Physics
PHYSICS 202	General Physics
PHYSICS 208	General Physics

**Total Credits** **8-10**

### Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	
<b>Total Credits</b>		<b>10-13</b>

### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3

## UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.

- Complete at least two credits from an unused category (A, B, C, D or E).

## A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3
CRB 650	Molecular and Cellular Organogenesis	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3
DERM 601	Skin Biology and Skin Diseases	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics I	3
GENETICS 520	Neurogenetics	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
GENETICS 588	Immunogenetics	3
MICROBIO 607	Advanced Microbial Genetics	3

MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
NEURODPT/ NTP 610	Cellular and Molecular Neuroscience	4
NEURODPT/NTP/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4
NEURODPT/ NTP 629	Molecular and Cellular Mechanisms of Memory	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY 655	Modeling Neurodevelopmental Disease	3

## B. Organismal Biology

Code	Title	Credits
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
ANAT&PHY 335	Physiology <sup>1</sup>	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory <sup>1</sup>	2
ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	5
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3

BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
DY SCI 378	Lactation Physiology <sup>1</sup>	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
ENTOM 321	Physiology of Insects	3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
F&W ECOL 401	Physiological Animal Ecology	3
GENETICS 545	Genetics Laboratory <sup>1</sup>	2
GENETICS/ MD GENET 565	Human Genetics	3
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
KINES 314	Physiology of Exercise <sup>1</sup>	4
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO 526	Physiology of Microorganisms	3
M M & I 301	Pathogenic Bacteriology	2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
NTP/ZOOLOGY 620	Neuroethology Seminar	2
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NUTR SCI 431	Nutrition in the Life Span	3
NUTR SCI 631	Clinical Nutrition I	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 606	Hormones and Behavior	3
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3

ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2
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### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3

ZOOLOGY/ Ecology of Fishes Lab<sup>1</sup> 2  
 ENVIR ST 511

#### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
PSYCH 449	Animal Behavior	3
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2
ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3

#### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3

AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2



M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

## ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course and at least two credits from categories A-E in the Upper-Level Breadth in the Major course lists, **or**
- Complete at least two credits of directed study in a biological science discipline, or
- Complete a two-semester thesis in biological science.<sup>2</sup>

### Approved Directed Study courses

To have Directed Study count for the Additional Lab/Field Research requirement, students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
DY SCI 699	Special Problems	
ENTOM 699	Special Problems	
FAM MED 699	Directed Study	
FOOD SCI 699	Special Problems	
F&W ECOL 699	Special Problems	
GENETICS 699	Special Problems	
H ONCOL 699	Independent Study in Human Cancer Biology	
HORT 699	Special Problems	
M&ENVTOX 699	Special Problems	
MEDICINE 699	Independent Study	

MED SC-V 699	Directed Study
MICROBIO 699	Special Problems
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURODPT 699	Directed Study
NEUROL 699	Directed Research in Neurology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NURSING 699	Directed Study in Nursing
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

### Approved Thesis sequences

Code	Title	Credits
AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis	
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis	
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis	

F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
PATH-BIO 681 & PATH-BIO 682	Senior Honors Thesis I and Senior Honors Thesis II
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

## BIOLOGY NAMED OPTIONS

Instead of completing the requirements above, students may choose to select one of the options below.

View as list [View as grid](#)

- **BIOLOGY: EVOLUTIONARY BIOLOGY (P. 1052)**
- **BIOLOGY: PLANT BIOLOGY (P. 1058)**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence<sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Biology major with permission of the major advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in the major
- Complete 13 credits from Foundation and Upper-Level Breadth in the Major requirements, taken for Honors
- Complete an approved two-semester Senior Honors Thesis for a total of 6 credits

## FOOTNOTES

1

Course also approved for lab credit

2

Foundation and Upper-Level Breadth in the Major are considered Upper-Level for purposes of this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Know and understand core concepts that unify the breadth of biological sciences including: evolution; structure and function; information flow, exchange, and storage; pathways for transformations of energy and matter; and systems.
2. Demonstrate practical skills of a professional biologist including: problem-solving by engaging the process of science; written and verbal proficiency; laboratory skills; quantitative analysis skills; and teamwork skills.
3. Graduates will be able to engage and make broader connections to other scientific disciplines and society.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Four-year Plans for the Biology major are designed to support biological science major exploration and planning your academic career. Your specific program of study could, and probably will, look different. You should customize the Four-Year Plan to fit your unique interests at UW–Madison. Consult with your advisor about the best plan for you.

### SAMPLE BIOLOGY MAJOR FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103		4 CHEM 104	5
MATH 221 <sup>1</sup>		5 MATH 222 or STAT 371 <sup>1</sup>	4
Communication A		3 Literature Breadth	3
Social Science Breadth		3 Ethnic Studies/Social Science Breadth	3
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>2</sup>		5 BIOLOGY/BOTANY/ ZOOLOGY 152 <sup>2</sup>	5
CHEM 343		3 CHEM 344	2
Literature Breadth		3 CHEM 345	3
Social Science Breadth		3 Humanities Breadth	3
INTER-LS 210		1 Elective	2
	<b>15</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Foundation Course for Major		3 Upper-Level Breadth in the Major	4
PHYSICS 103		4 PHYSICS 104	4
Social Science Breadth		3 Humanities Breadth	3
Electives		5 Electives	4
Declare the Major			
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Upper-Level Breadth in the Major		3 Upper-Level Breadth in the Major	6
Upper-Level Breadth in the Major Lab or Field Research		3 Additional Lab or Field Research	2

Electives	9 Electives	7
	<b>15</b>	<b>15</b>

#### Total Credits 120

1

Follow the guidance of Math placement scores when choosing a Mathematics and/or Statistics course.

2

Students may complete one of three Introductory Biology sequences. See the Requirements tab for more information.

## ADVISING AND CAREERS

### ADVISING

Your advisor is here to guide you through the biology major. We can address your questions and concerns, provide advice, help you create a four-year degree plan that meets your major and professional goals, and connect you to resources. It is important to remember that advising is about the process, and some questions do not have a quick and easy answer. Your advisor will challenge you to self-reflect, to critically think about your goals and strategies, and to develop decision-making skills. For more information about what to expect during your advising appointment, visit UW Undergraduate Advising (<https://advising.wisc.edu/soar/advising-101/>).

In the biology major, students are assigned to an adviser according to last name. Please visit us here (<http://biology.wisc.edu/advising/>) to schedule an advising appointment.

### CAREERS

The biology major encourages our students to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

credit or pay, depending on the opportunity. Research opportunities can be identified by inquiring directly (<https://biology.wisc.edu/finding-mentor/>) with faculty members, reading the *Biology Major Newsletter*, or announcement on the Student Job Center (<https://jobcenter.wisc.edu/>).

## BIOLOGY: EVOLUTIONARY BIOLOGY

The **Evolutionary Biology Named Option** allows biology majors to concentrate their studies in evolution and to have this reflected on their transcript. Since there is no evolutionary biology major available at UW-Madison, this is the only mechanism to indicate specialization in this rapidly growing and popular field. In taking this named option, students will be able to fulfill their intermediate/advanced biology requirement with courses that emphasize evolutionary biology, ranging from required courses in fundamental evolutionary biology to more advanced optional courses that cover a wide range of evolutionary biology topics. They will also take a seminar course in evolutionary biology.

Who should enroll in this option? Students with broad interest in the biological sciences who want to:

- Prepare for graduate study in evolutionary biology or related fields
- Prepare for professional studies (e.g. medical school, veterinary school, dentistry)
- Concentrate their biological studies in evolutionary biology

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, Additional Lab or Field Research, and Evolutionary Biology Seminar requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

### CORE REQUIREMENTS

#### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

**Total Credits**

**8-14**

## PEOPLE

### ADVISING LEADERSHIP AND STAFF

Brian Asen  
 Carley Garvens  
 Sarah Kuba, Program Director  
 Brittany Magrady  
 Damien Parks

### BIOLOGY MAJOR PROGRAM COMMITTEE

(voting members)

Joseph Dillard  
 Stephen Gammie, L&S Co-Chair  
 Irwin Goldman, Plant Biology Named Option Representative  
 Anna Kowalkowski  
 Sarah Kuba, ex officio  
 Kate McCulloh  
 Timothy Paustian, ex officio  
 Federico Rey  
 Nathaniel Sharp, Evolutionary Biology Named Option Representative  
 Sharon Thoma, ex officio  
 Jon Woods  
 Jae-Hyuk Yu, CALS Co-Chair

## WISCONSIN EXPERIENCE

### WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biology, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- Many study abroad programs offer a plethora of excellent upper level bioscience courses. Students often complete courses abroad that meet upper-level breadth in the major requirements (categories A-E) while others use this opportunity to focus on non-science coursework and explore other topics that interest them. Review the Biology Major advising page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biology/>) on the Study Abroad website to explore international academic programs.
- Students are encouraged to get involved in research in any life science department. Research can be performed for either course

**Chemistry**

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

**Physics**

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

**Introductory Biology**

Code	Title	Credits
Complete one sequence:		10-13
Option A:		10
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		13
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		10
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

**Foundation Course (complete one of the following):**

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

**UPPER-LEVEL BREADTH IN THE MAJOR**

Minimum of 13 credits required as follows and must include **one approved lab course**. (Approved lab courses are indicated by footnote). A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete the Evolutionary Biology course
- Complete at least two credits from either category A or B.
- Complete at least two credits from category C.
- Complete at least two credits from category D.
- Additional courses needed to reach 13 credits Upper-Level Breadth in the Major may be taken from any category (A, B, C, D, E).

**Required Evolutionary Biology course**

Code	Title	Credits
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	3

**A. Cellular and Subcellular Biology**

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3

BIOCHEM/ BOTANY 621	Plant Biochemistry	3	ZOOLOGY 655	Modeling Neurodevelopmental Disease	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2	<b>B. Organismal Biology</b>		
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3	AN SCI/DY SCI 373	Animal Physiology	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3	AN SCI/DY SCI 434	Reproductive Physiology <sup>1</sup>	3
CRB 650	Molecular and Cellular Organogenesis	3	AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3	AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin <sup>1</sup>	3
DERM 601	Skin Biology and Skin Diseases	3	ANAT&PHY 335	Physiology <sup>1</sup>	5
GENETICS 466	Principles of Genetics	3	ANAT&PHY 337	Human Anatomy	3
GENETICS 467	General Genetics 1	3	ANAT&PHY 338	Human Anatomy Laboratory	2
GENETICS 520	Neurogenetics	3	ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	5
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3	ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
GENETICS 588	Immunogenetics	3	BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
MICROBIO 607	Advanced Microbial Genetics	3	BOTANY 300	Plant Anatomy <sup>1</sup>	4
MICROBIO 470	Microbial Genetics & Molecular Machines	3	BOTANY 330	Algae <sup>1</sup>	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3	BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
M M & I 341	Immunology	3	BOTANY/ PL PATH 333	Biology of the Fungi	2
M M & I/PATH- BIO 528	Immunology	3	BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
NEURODPT/NTP/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior <sup>1</sup>	4	BOTANY 500	Plant Physiology <sup>1</sup>	3-4
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4	CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3	DY SCI 378	Lactation Physiology <sup>1</sup>	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3	ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3	ENTOM 321	Physiology of Insects	3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3	ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3	F&W ECOL 401	Physiological Animal Ecology	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology <sup>1</sup>	2	GENETICS 545	Genetics Laboratory <sup>1</sup>	2
ZOOLOGY 470	Introduction to Animal Development	3	GENETICS/ MD GENET 565	Human Genetics	3
ZOOLOGY/ PSYCH 523	Neurobiology	3	GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
ZOOLOGY 555	Laboratory in Developmental Biology <sup>1</sup>	3	KINES 314	Physiology of Exercise <sup>1</sup>	4
ZOOLOGY 570	Cell Biology	3	MICROBIO 303	Biology of Microorganisms	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab <sup>1</sup>	2	MICROBIO 304	Biology of Microorganisms Laboratory <sup>1</sup>	2
ZOOLOGY 625	Development of the Nervous System	2	MICROBIO 330	Host-Parasite Interactions	3
			MICROBIO 526	Physiology of Microorganisms	3
			M M & I 301	Pathogenic Bacteriology	2
			M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
			NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
			NTP/ZOOLOGY 620	Neuroethology Seminar	2

NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3
NUTR SCI 431	Nutrition in the Life Span	3
NUTR SCI 631	Clinical Nutrition I	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 606	Hormones and Behavior	3
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates <sup>1</sup>	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2

### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 451	Basic and Applied Insect Ecology Laboratory	1
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3

F&W ECOL 379	Principles of Wildlife Management	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2

### D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects <sup>1</sup>	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
PSYCH 449	Animal Behavior	3-4
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab <sup>1</sup>	2

ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology <sup>1</sup>	3
AN SCI 512	Management for Avian Health <sup>1</sup>	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology <sup>1</sup>	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology <sup>1</sup>	4
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques <sup>1</sup>	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory <sup>1</sup>	2

FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing <sup>1</sup>	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
NUTR SCI 332	Human Nutritional Needs	3
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHM COL-M/ POP HLTH 625	Toxicology I	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

### ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course from categories A-E in the Upper-Level Breadth in the Major course lists, **or**
- Complete at least 2 credits of directed study in a biological science discipline, **or**
- Complete a two-semester thesis in biological science.

### Approved Directed Study Courses

To have Directed Study count for the Additional Lab/Field Research requirement students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	



COMP BIO 699	Directed Study
CRB 699	Independent Study
DY SCI 699	Special Problems
ENTOM 699	Special Problems
FAM MED 699	Directed Study
FOOD SCI 699	Special Problems
F&W ECOL 699	Special Problems
GENETICS 699	Special Problems
HORT 699	Special Problems
M&ENVTOX 699	Special Problems
MEDICINE 699	Independent Study
MED SC-V 699	Directed Study
MICROBIO 699	Special Problems
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURODPT 699	Directed Study
NEUROL 699	Directed Research in Neurology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NURSING 699	Directed Study in Nursing
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

### Approved Thesis Sequences

Code	Title	Credits
------	-------	---------

Approved Thesis sequences:

AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	

BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis
F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
PATH-BIO 681 & PATH-BIO 682	Senior Honors Thesis I and Senior Honors Thesis II
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

### EVOLUTIONARY BIOLOGY SEMINAR

Code	Title	Credits
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence<sup>2</sup>
- 15 credits in the major, taken on the UW–Madison campus

## FOOTNOTES

1

Course also approved for lab credit

2

Foundation and Upper-Level Breadth in the Major courses are considered Upper-Level for purposes of this requirement.

## BIOLOGY: PLANT BIOLOGY

**Admissions to the Biology: Plant Biology, B.S. named option have been suspended as of fall 2021 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

The **Plant Biology Option** allows biology majors to focus their studies on plant science and to have this reflected on their transcript. There are a number of departments at UW–Madison who host plant science-based majors, including agronomy, botany, horticulture, plant pathology, and forest and wildlife ecology. While those specialized majors offer in-depth programs in their disciplines, the plant biology option allows students to pursue a course of study within the biology major and explore plant biology at the same time. Students in this option can fulfill their requirements with courses that emphasize various aspects of plant science, including anatomy, physiology, genetics, crop production, disease resistance, and molecular techniques in plant improvement. Students also participate in a one-credit seminar called Frontiers in Plant Science taught by two faculty from plant science departments.

Who should enroll in this option? Students with broad interest in biological sciences who also want to:

- Prepare for graduate work in a plant science field
- Prepare for advanced study or graduate work in a natural or environmental science field
- Concentrate their studies on the biology of plants

## REQUIREMENTS

### REQUIREMENTS FOR THE NAMED OPTION

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Additional Lab or Field Research requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

## CORE REQUIREMENTS

### Mathematics and Statistics

Code	Title	Credits
Complete one of the following:		5-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Total Credits</b>		<b>8-14</b>

### Chemistry

Code	Title	Credits
General Chemistry (Complete one of the following):		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Organic Chemistry		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Total Credits</b>		<b>13-18</b>

### Physics

Code	Title	Credits
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
<b>Total Credits</b>		<b>8-10</b>

### Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	

BIOCORE 382	Evolution, Ecology, and Genetics Laboratory
BIOCORE 383	Cellular Biology
BIOCORE 384	Cellular Biology Laboratory
BIOCORE 485	Principles of Physiology
Option C:	
ZOOLOGY/ BIOLOGY 101	Animal Biology
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory
BOTANY/ BIOLOGY 130	General Botany

### Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3

### UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course**. Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from category E.

#### A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I <sup>1</sup>	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 570	Computational Modeling of Biological Systems	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics 1	3

#### B. Organismal Biology

Code	Title	Credits
BIOCORE 486	Principles of Physiology Laboratory <sup>1</sup>	2
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae <sup>1</sup>	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 500	Plant Physiology <sup>1</sup>	3-4
ENTOM/ ZOOLOGY 302	Introduction to Entomology <sup>1</sup>	4
PL PATH 558	Biology of Plant Pathogens <sup>1</sup>	3

#### C. Ecology

Code	Title	Credits
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4
PL PATH 315	Plant Microbiomes <sup>1</sup>	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY 320	Field Marine Biology <sup>1</sup>	3

#### D. Evolution and Systematics

Code	Title	Credits
ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4

BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
GENETICS 468	General Genetics 2	3

### E. Applied Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I <sup>1</sup>	3
HORT 370	World Vegetable Crops	3
HORT 372	Seminar in Organic Agriculture	1
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
MED PHYS/NTP 651	Methods for Neuroimaging Research	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1

### ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one *additional* lab course and at least two credits from categories A-E in the Upper-Level Breadth in the Major course lists, or

- Complete at least two credits of directed study in a biological science discipline, or
- Complete a two-semester thesis in biological science.

### Approved Directed Study Courses

To have Directed Study count for the Additional Lab/Field Research requirement, students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
DY SCI 699	Special Problems	
ENTOM 699	Special Problems	
FAM MED 699	Directed Study	
FOOD SCI 699	Special Problems	
F&W ECOL 699	Special Problems	
GENETICS 699	Special Problems	
HORT 699	Special Problems	
M&ENVTOX 699	Special Problems	
MEDICINE 699	Independent Study	
MED SC-V 699	Directed Study	
MICROBIO 699	Special Problems	
M M & I 699	Directed Study	
MOL BIOL 699	Directed Studies in Molecular Biology	
NEURODPT 699	Directed Study	
NEUROL 699	Directed Research in Neurology	
NEURSURG 699	Neurosurgery: Directed in Study in Research	
NURSING 699	Directed Study in Nursing	
NUTR SCI 699	Special Problems	
OBS&GYN 699	Directed Study	
ONCOLOGY 699	Special Research Problems	
OPHTHALM 699	Directed Study	
PATH 699	Independent Study	
PATH-BIO 699	Directed Study	
PEDIAT 699	Independent Study	
PHM SCI 699	Advanced Independent Study	
PHMCOL-M 699	Independent Study	
PHYSIOL 699	Independent Work	
PL PATH 699	Special Problems	
RHAB MED 699	Independent Study	
SOIL SCI 699	Special Problems	
SURG SCI 699	Directed Study	
SURGERY 699	Independent Study	

## Approved Thesis Sequences

Code	Title	Credits
AGRONOMY 681 & AGRONOMY 682	Senior Honors Thesis and Senior Honors Thesis	
AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
AN SCI 691 & AN SCI 692	Thesis and Thesis	
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	
BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	
BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	
DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis	
ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis	
FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis	
F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis	
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis	
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2	
H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2	
HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis	
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis	
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis	
MICROBIO 691 & MICROBIO 692	Senior Thesis and Senior Thesis	
MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis	
MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis	
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis	
NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis	
PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis	

SOIL SCI 681 & SOIL SCI 682 Senior Honors Thesis and Senior Honors Thesis

ZOOLOGY 681 & ZOOLOGY 682 Senior Honors Thesis and Senior Honors Thesis

ZOOLOGY 691 & ZOOLOGY 692 Senior Thesis and Senior Thesis

## UNDERGRADUATE PLANT SCIENCE SEMINAR

Code	Title	Credits
Complete one of the following:		
AGRONOMY 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar)	1-4
BIOCHEM 375	Special Topics (Biochemistry and Molecular Biology of Plants Seminar)	1-4
PL PATH 375	Special Topics (Frontiers in Plant Biology)	1-4

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence <sup>2</sup>
- 15 credits in the major, taken on the UW-Madison campus

## FOOTNOTES

1

Course also approved for lab credit

2

Foundation and Upper-Level Breadth in the Major courses are considered Upper-Level for purposes of this requirement.

## MOLECULAR AND CELL BIOLOGY, B.A.

### ABOUT THE MAJOR

Molecular and Cell Biology is the basic science that seeks an understanding of biological processes in terms of the properties and functions of the molecules that make up living cells. The scope of questions addressed in molecular and cell biology ranges from evolution to development to the regulation of gene expression. A career in molecular and cell biology requires a strong background in biology as well as a solid foundation in chemistry, mathematics, and physics.

The Molecular and Cell Biology major has been designed primarily for three groups of students:

1. those who plan to enter a research career in molecular and cell biology or related areas such as biochemistry, genetics, oncology, microbiology, cell biology or developmental biology;
2. pre-professional students who plan to enter either a research or clinical career in medicine, or allied health fields;

3. students who plan to pursue careers in the biotechnology and pharmaceutical science industries.

Students with other interests are also welcome, of course. Career opportunities for students with an undergraduate degree in molecular and cell biology are amazingly diverse. Graduates of the program have gone into patent law, science journalism, forensics, philosophy, nutrition, genetic counseling, veterinary medicine, anthropology, archeology, marine biology, theology, and much more ([https://molecularbiologymajor.wiscweb.wisc.edu/wp-content/uploads/sites/290/2017/07/What\\_can\\_I\\_do\\_with\\_a\\_MolBio\\_Major\\_.pdf](https://molecularbiologymajor.wiscweb.wisc.edu/wp-content/uploads/sites/290/2017/07/What_can_I_do_with_a_MolBio_Major_.pdf)).

Major requirements have been set to assure a high degree of proficiency in the various areas specified while still allowing as much flexibility as possible for students to individualize their programs. For the undergraduate interested in life sciences, this major uniquely provides access to the extraordinary scope and strength of biology courses and laboratories on the UW–Madison campus. Each student in the major is assigned a faculty advisor, and it is hoped that students will take advantage of both the staff and faculty advising service available to make a judicious choice of courses, as well as to gain scholarly experience outside the classroom that will further their academic and career goals.

Students who wish to obtain further information about the program or to declare a molecular biology major should contact the student services coordinator. (<https://molecularbio.ls.wisc.edu/advising/>) Faculty advisors are assigned through the program office and are located in many related departments throughout campus. Molecular and Cell Biology faculty advisors are especially competent to provide counsel regarding the major and career opportunities in molecular biology.

## UNDERGRADUATE RESEARCH

Undergraduate Molecular and Cell Biology students at UW–Madison are fortunate to have the opportunity to work with some of the world's leading researchers. Many opportunities for laboratory research experience are available on campus for undergraduate students and this type of experiences is strongly encouraged. Such an experience provides students the opportunity to apply what they're learning and complement their knowledge with practical skills. Research experience is highly valued by employers, graduate programs, and professional schools. See the major website (<https://molecularbio.ls.wisc.edu/undergraduate-research/>) for more information on how to get involved in undergraduate research.

## HOW TO GET IN

To declare the Molecular and Cell Biology major, students must make an appointment with the Molecular and Cell Biology academic advising manager through Starfish.

Students who intend to major in Molecular and Cell Biology may not combine this major ("double major") with the Biology or Biochemistry majors in either the College of Letters and Science or the College of Agricultural and Life Sciences (CALS).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience • 30 credits in residence, overall; and  
• 30 credits in residence after the 86th credit.

Quality of Work • 2.000 in all coursework at UW-Madison  
• 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics and Statistics</b>		<b>6-10</b>
<i>Complete one of the following:</i>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 217	Calculus with Algebra and Trigonometry II	5
<i>Complete one of the following:</i>		
MATH 222	Calculus and Analytic Geometry 2	4
MATH 213	Calculus and Introduction to Differential Equations	3
MATH 276	Topics in Calculus II	5
STAT 240	Data Science Modeling I	4
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3
<b>General Chemistry—complete one option:</b>		<b>5-10</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (by consent of instructor only)	10
<b>Organic Chemistry—complete the sequence</b>		<b>8</b>
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
<b>Physics—Choose a first and a second calculus based physics option OR elementary based physics sequence with additional calculus</b>		<b>10-12</b>
<i>Calculus Based Physics: First Introductory Course—complete one class:</i>		
PHYSICS 207	General Physics	5
PHYSICS 201	General Physics	5
PHYSICS 247	A Modern Introduction to Physics	5
<i>Calculus Based Physics: Second Introductory Course—complete one class:</i>		
PHYSICS 208	General Physics	5

PHYSICS 202	General Physics	5
PHYSICS 248	A Modern Introduction to Physics	5
<i>Elementary Based Physics --complete three</i>		
PHYSICS 103	General Physics	4
PHYSICS 104	General Physics	4
MATH 234	Calculus--Functions of Several Variables	4

## INTRODUCTORY BIOLOGY

Code	Title	Credits
<b>Complete one option:</b>		<b>10-13</b>
<i>Option A:</i>		
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	5
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	5
<i>Option B:<sup>1</sup></i>		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
BIOCORE 383	Cellular Biology	3
BIOCORE 384	Cellular Biology Laboratory	2
BIOCORE 485	Principles of Physiology	3
<i>Option C:</i>		
ZOOLOGY/ BIOLOGY 101	Animal Biology	3
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	2
BOTANY/ BIOLOGY 130	General Botany	5

## BREADTH COURSEWORK

Code	Title	Credits
<b>Biochemistry—complete one of the following:</b>		
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	6
<b>Cell Biology</b>		
ZOOLOGY 570	Cell Biology	3
<b>Molecular Biology and Genetics—complete one of the following:</b>		
BIOCORE 381 & BIOCORE 383 & BIOCORE 587	Evolution, Ecology, and Genetics and Cellular Biology and Biological Interactions	9
GENETICS 466	Principles of Genetics	3
GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2	6
MICROBIO 470	Microbial Genetics & Molecular Machines	3
Total Credits		9-18

**DEPTH COURSEWORK**

Code	Title	Credits
Students must complete 6 unique credits of depth coursework. Courses may be concentrated in one area or distributed across multiple areas. <sup>2</sup>		
<b>Biochemistry and Biophysics (no minimum)</b>		
CHEM 575	Advanced Topics in Chemistry	1-4
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
<b>Cellular Systems (no minimum)</b>		
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 630		3
GENETICS 627	Animal Developmental Genetics	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH-BIO/ M M & I 528	Immunology	3
BIOCORE 587	Biological Interactions	3
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4
<b>Genetics (no minimum)</b>		
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
GENETICS 520	Neurogenetics	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 565	Human Genetics	3
HORT/AGRONOMY/ BOTANY 340	Plant Cell Culture and Genetic Engineering	3
MICROBIO 607	Advanced Microbial Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
GENETICS 627	Animal Developmental Genetics	3

GENETICS/ BIOCHEM 631	Plant Genetics and Development	3
GENETICS/ MD GENET 662	Cancer Genetics	3
<b>Microbiology and Virology (no minimum)</b>		
MICROBIO 303	Biology of Microorganisms	3
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO 526	Physiology of Microorganisms	3
PL PATH 622	Plant-Bacterial Interactions	2-3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
<b>Quantitative Biology (no minimum)</b>		
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
MATH 340	Elementary Matrix and Linear Algebra	3
STAT 303	R for Statistics I	1
STAT 304	R for Statistics II	1
STAT 305	R for Statistics III	1
STAT 327	Learning a Statistical Language	1
STAT 333	Applied Regression Analysis	3
STAT 421	Applied Categorical Data Analysis	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3
COMP SCI 300	Programming II	3
COMP SCI 368	Learning a Programming Language	1
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI/ B M I 567	Medical Image Analysis	3
COMP SCI/ B M I 576	Introduction to Bioinformatics	3
MICROBIO 657	Bioinformatics for Microbiologists	3

**LABORATORY COURSE**

Complete 2 credits minimum:

Code	Title	Credits
Students who complete at least 4 credits of MOL BIOL 699 fulfill both the Laboratory Course and Directed/Independent Study requirements		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
COMP SCI 220	Data Science Programming I	4
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 657	Bioinformatics for Microbiologists	3



MOL BIOL 681	Senior Honors Thesis	3
MOL BIOL 691	Senior Thesis	3
MOL BIOL 699	Directed Studies in Molecular Biology	1-4
ZOOLOGY 555	Laboratory in Developmental Biology	3

## DIRECTED/INDEPENDENT STUDY

Code	Title	Credits
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Students who complete at least 4 credits of MOL BIOL 699 fulfill both the Laboratory Course and Directed/Independent Study requirements

Complete two credits minimum:

### Directed/Independent Research

MOL BIOL 699	Directed Studies in Molecular Biology	1-4
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### Senior Thesis

MOL BIOL 682	Senior Honors Thesis	3
MOL BIOL 692	Senior Thesis	3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MOL BIOL and major courses
- 2.000 GPA on at least 15 credits of upper-level in the major, taken in residence<sup>3</sup>
- 15 credits in MOL BIOL, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Molecular Biology and Cell Biology major in consultation with the Molecular and Cell Biology undergraduate advisor.

## HONORS IN THE MOLECULAR AND CELL BIOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Molecular and Cell Biology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all courses accepted in the major
- Complete at least 15 credits of honors courses in the major while in residence at UW-Madison. This requirement can be broken down as indicated below:
  - At least 9 credits from the Breadth and Depth course options in the Molecular and Cell Biology major
  - Complete two semester Senior Honors Thesis, a piece of original research composition.

Code	Title	Credits
MOL BIOL 681	Senior Honors Thesis	3
MOL BIOL 682	Senior Honors Thesis	3

- Complete one semester of the Molecular Biology senior honors seminar course.

Code	Title	Credits
MOL BIOL 686	Senior Honors Seminar in Molecular Biology	1

## FOOTNOTES

1

BIOCORE is a competitive honors program and certificate.

2

Students are encouraged to see their advisor for assistance in choosing depth coursework.

3

Courses accepted in the major that are Intermediate or Advanced are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate the energetic and thermodynamic bases of life, with an emphasis on the molecular mechanisms underlying them
2. Integrate the nature of genetic material and its roles in inheritance, evolution, and cellular function
3. Summarize the fundamental relationship between the structure and function of biological macromolecules
4. Summarize the principles of cell structure, function, and biological dynamics
5. Appraise the molecular mechanisms and quantitative principles in biochemistry/physical chemistry, cellular systems, genetics, and microbiology.
6. Develop skills to communicate scientific information in oral and written form
7. Develop the ability to formulate hypotheses and plan, design, and carry out scientific experiments to test them
8. Developing quantitative reasoning skills and the ability to use quantitative approaches to understand basic principles of life.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Communication A		3 MATH 221	5
Quantitative Reasoning A		3-5 Ethnic Studies	3
CHEM 103		4 CHEM 104	5
Foreign Language (if needed)		3-4 Humanities Breadth	2
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151		5 ZOOLOGY/BIOLOGY/BOTANY 152	5
CHEM 343		3 CHEM 344	2
Social Science Breadth		3 CHEM 345	3
Humanities Breadth		3 STAT 371	3
INTER-LS 210 <sup>1</sup>		1 Elective	2
	<b>15</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
PHYSICS 207		5 PHYSICS 208	5
GENETICS 466		3 BIOCHEM 501	3
ZOOLOGY 570		3 Literature Breadth	3
Social Science Breadth		3 MOL BIOL 699 or Elective	3
MOL BIOL 699		1-4	
	<b>16</b>		<b>14</b>

#### Senior

Fall	Credits	Spring	Credits
Depth Coursework		3 Depth Coursework	3
Laboratory Course		2-4 MOL BIOL 699 or Elective	3
MOL BIOL 699 or Elective		3 Literature Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120**

1

INTER-LS 210 L&S Career Development: Taking Initiative is an option, but not required for students pursuing the Molecular and Cell Biology major.

## ADVISING AND CAREERS

Students in the major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<https://molecularbio.ls.wisc.edu/advising/>) for a list of advisors and for the student services coordinator information. The faculty advisor provides guidance specific to the molecular and cell biology discipline through discussions about undergraduate experiences (i.e., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline, and also helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward graduation, as well as connecting students with important resources on campus.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Committee of Advisors: Ahmad (Dermatology), Amann (Integrative Biology), Fabry (Pathology and Laboratory Medicine), Filutowicz (Bacteriology), Grinblat (Neuroscience), Martin (Biochemistry), McMahon

(Civil Engineering and Environmental Engineering), Newmark (Integrative Biology), Otegui (Botany), Raman (Biochemistry), Schuler (Comparative Biosciences)

## RESOURCES AND SCHOLARSHIPS

### HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP

The Hilldale (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) Undergraduate/Faculty Research Fellowships support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 97–100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

### HOLSTROM ENVIRONMENTAL RESEARCH FELLOWSHIP

The Holstrom Environmental Research Fellowship (<https://awards.advising.wisc.edu/all-scholarships/holstrom-environmental-research-fellowship/>) supports undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least a junior standing at time of application.

### SOPHOMORE RESEARCH FELLOWSHIP

Funded by grants from the Brittingham Fund and the Kemper K. Knapp Bequest, the Sophomore Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/sophomore-research-fellowship/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 15 awards are available.

### UNDERGRADUATE RESEARCH SCHOLARS

The Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>) (URS) program is dedicated to enhancing the academic experience of UW–Madison students by providing first- and second-year undergraduates with opportunities to earn credit for participating in research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities.

### UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity, achievement, research, service-learning, and community-based research from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences. This past year nearly 700 students presented, displayed, or performed their work for members of the university, the surrounding community, family, and friends.

### UNIVERSITY BOOK STORE AWARD

Supported by a generous grant from the University Book Store, (<https://awards.advising.wisc.edu/all-scholarships/university-book-store-award/>) this award recognizes undergraduate students who have completed an

outstanding independent project, such as a senior thesis, at UW–Madison. Projects in all academic fields are eligible.

## WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working toward solving a challenge identified along with local or global community partners. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## MOLECULAR AND CELL BIOLOGY, B.S.

### ABOUT THE MAJOR

Molecular and Cell Biology is the basic science that seeks an understanding of biological processes in terms of the properties and functions of the molecules that make up living cells. The scope of questions addressed in molecular and cell biology ranges from evolution to development to the regulation of gene expression. A career in molecular and cell biology requires a strong background in biology as well as a solid foundation in chemistry, mathematics, and physics.

The Molecular and Cell Biology major has been designed primarily for three groups of students:

1. those who plan to enter a research career in molecular and cell biology or related areas such as biochemistry, genetics, oncology, microbiology, cell biology or developmental biology;
2. pre-professional students who plan to enter either a research or clinical career in medicine, or allied health fields;
3. students who plan to pursue careers in the biotechnology and pharmaceutical science industries.

Students with other interests are also welcome, of course. Career opportunities for students with an undergraduate degree in molecular and cell biology are amazingly diverse. Graduates of the program have gone into patent law, science journalism, forensics, philosophy, nutrition, genetic counseling, veterinary medicine, anthropology, archeology, marine biology, theology, and much more ([https://molecularbilogymajor.wiscweb.wisc.edu/wp-content/uploads/sites/290/2017/07/What\\_can\\_I\\_do\\_with\\_a\\_MolBio\\_Major\\_.pdf](https://molecularbilogymajor.wiscweb.wisc.edu/wp-content/uploads/sites/290/2017/07/What_can_I_do_with_a_MolBio_Major_.pdf)).

Major requirements have been set to assure a high degree of proficiency in the various areas specified while still allowing as much flexibility as possible for students to individualize their programs. For the undergraduate interested in life sciences, this major uniquely provides access to the extraordinary scope and strength of biology courses and laboratories on the UW–Madison campus. Each student in the major is assigned a faculty advisor, and it is hoped that students will take advantage of both the staff and faculty advising service available to make a judicious choice of courses, as well as to gain scholarly experience outside the classroom that will further their academic and career goals.

Students who wish to obtain further information about the program or to declare a molecular biology major should contact the student services coordinator. (<https://molecularbio.ls.wisc.edu/advising/>) Faculty advisors are assigned through the program office and are located in many related departments throughout campus. Molecular and Cell Biology faculty

advisors are especially competent to provide counsel regarding the major and career opportunities in molecular biology.

## UNDERGRADUATE RESEARCH

Undergraduate Molecular and Cell Biology students at UW–Madison are fortunate to have the opportunity to work with some of the world's leading researchers. Many opportunities for laboratory research experience are available on campus for undergraduate students and this type of experiences is strongly encouraged. Such an experience provides students the opportunity to apply what they're learning and complement their knowledge with practical skills. Research experience is highly valued by employers, graduate programs, and professional schools. See the major website (<https://molecularbio.ls.wisc.edu/undergraduate-research/>) for more information on how to get involved in undergraduate research.

## HOW TO GET IN

To declare the Molecular and Cell Biology major, students must make an appointment with the Molecular and Cell Biology academic advising manager through Starfish.

Students who intend to major in Molecular and Cell Biology may not combine this major ("double major") with the Biology or Biochemistry majors in either the College of Letters and Science or the College of Agricultural and Life Sciences (CALS).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATHEMATICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics and Statistics</b>		
<i>Complete one of the following:</i>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 217	Calculus with Algebra and Trigonometry II	5

*Complete one of the following:*

MATH 222	Calculus and Analytic Geometry 2	4
MATH 213	Calculus and Introduction to Differential Equations	3
MATH 276	Topics in Calculus II	5
STAT 240	Data Science Modeling I	4
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3

**General Chemistry—complete one option: 5-10**

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (by consent of instructor only)	10

**Organic Chemistry -complete the sequence 8**

CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

**Physics -Choose a first and a second calculus based physics option OR elementary based physics sequence with additional calculus 10-12**

*Calculus Based Physics: First Introductory Course—complete one class:*

PHYSICS 207	General Physics	5
PHYSICS 201	General Physics	5
PHYSICS 247	A Modern Introduction to Physics	5

*Calculus Based Physics: Second Introductory Course—complete one class:*

PHYSICS 208	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 248	A Modern Introduction to Physics	5

*Elementary Based Physics --complete three*

PHYSICS 103	General Physics	4
PHYSICS 104	General Physics	4
MATH 234	Calculus--Functions of Several Variables	4

## INTRODUCTORY BIOLOGY

Code	Title	Credits
<b>Complete one option:</b>		<b>10-13</b>

*Option A:*

ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	5
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ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	5
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*Option B:<sup>1</sup>*

BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	2
BIOCORE 383	Cellular Biology	3
BIOCORE 384	Cellular Biology Laboratory	2

BIOCORE 485	Principles of Physiology	3
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*Option C:*

ZOOLOGY/ BIOLOGY 101	Animal Biology	3
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ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	2
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BOTANY/ BIOLOGY 130	General Botany	5
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## BREADTH COURSEWORK

Code	Title	Credits
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**Biochemistry -complete one of the following:**

BIOCHEM 501	Introduction to Biochemistry	3
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BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	6
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**Cell Biology**

ZOOLOGY 570	Cell Biology	3
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**Molecular Biology and Genetics -complete one of the following:**

BIOCORE 381 & BIOCORE 383 & BIOCORE 587	Evolution, Ecology, and Genetics and Cellular Biology and Biological Interactions	9
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GENETICS 466	Principles of Genetics	3
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GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2	6
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MICROBIO 470	Microbial Genetics & Molecular Machines	3
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Total Credits		9-18
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## DEPTH COURSEWORK

Code	Title	Credits
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Students must complete 6 unique credits of depth coursework. Courses may be concentrated in one area or distributed across multiple areas.<sup>2</sup>

**Biochemistry and Biophysics (no minimum)**

CHEM 575	Advanced Topics in Chemistry	1-4
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BIOCHEM 550	Principles of Human Disease and Biotechnology	2
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BIOCHEM 601	Protein and Enzyme Structure and Function	2
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BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
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BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
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BIOCHEM/ BOTANY 621	Plant Biochemistry	3
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BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
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**Cellular Systems (no minimum)**

ZOOLOGY 470	Introduction to Animal Development	3
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ZOOLOGY/ PSYCH 523	Neurobiology	3
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ZOOLOGY 603	Endocrinology	3-4
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ZOOLOGY 630		3
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GENETICS 627	Animal Developmental Genetics	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH-BIO/ M M & I 528	Immunology	3
BIOCORE 587	Biological Interactions	3
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4
<b>Genetics (no minimum)</b>		
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
GENETICS 520	Neurogenetics	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
GENETICS/ MD GENET 565	Human Genetics	3
HORT/AGRONOMY/ BOTANY 340	Plant Cell Culture and Genetic Engineering	3
MICROBIO 607	Advanced Microbial Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
GENETICS 627	Animal Developmental Genetics	3
GENETICS/ BIOCHEM 631	Plant Genetics and Development	3
GENETICS/ MD GENET 662	Cancer Genetics	3
<b>Microbiology and Virology (no minimum)</b>		
MICROBIO 303	Biology of Microorganisms	3
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO 526	Physiology of Microorganisms	3
PL PATH 622	Plant-Bacterial Interactions	2-3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
<b>Quantitative Biology (no minimum)</b>		
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
MATH 340	Elementary Matrix and Linear Algebra	3
STAT 303	R for Statistics I	1
STAT 304	R for Statistics II	1
STAT 305	R for Statistics III	1

STAT 327	Learning a Statistical Language	1
STAT 333	Applied Regression Analysis	3
STAT 421	Applied Categorical Data Analysis	3
B M E 556	Systems Biology: Mammalian Signaling Networks	3
COMP SCI 300	Programming II	3
COMP SCI 368	Learning a Programming Language	1
COMP SCI 540	Introduction to Artificial Intelligence	3
COMP SCI/ B M I 567	Medical Image Analysis	3
COMP SCI/ B M I 576	Introduction to Bioinformatics	3
MICROBIO 657	Bioinformatics for Microbiologists	3

## LABORATORY COURSE

Complete 2 credits minimum:

Code	Title	Credits
Students who complete at least 4 credits of MOL BIOL 699 fulfill both the Laboratory Course and Directed/Independent Study requirements		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
COMP SCI 220	Data Science Programming I	4
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 657	Bioinformatics for Microbiologists	3
MOL BIOL 681	Senior Honors Thesis	3
MOL BIOL 691	Senior Thesis	3
MOL BIOL 699	Directed Studies in Molecular Biology	1-4
ZOOLOGY 555	Laboratory in Developmental Biology	3

## DIRECTED/INDEPENDENT STUDY

Code	Title	Credits
Students who complete at least 4 credits of MOL BIOL 699 fulfill both the Laboratory Course and Directed/Independent Study requirements		
Complete two credits minimum:		
<b>Directed/Independent Research</b>		
MOL BIOL 699	Directed Studies in Molecular Biology	1-4
<b>Senior Thesis</b>		
MOL BIOL 682	Senior Honors Thesis	3
MOL BIOL 692	Senior Thesis	3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MOL BIOL and major courses
- 2.000 GPA on at least 15 credits of upper-level in the major, taken in residence<sup>3</sup>
- 15 credits in MOL BIOL, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Molecular Biology and Cell Biology major in consultation with the Molecular and Cell Biology undergraduate advisor.

## HONORS IN THE MOLECULAR AND CELL BIOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Molecular and Cell Biology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 overall university GPA
- Earn a 3.300 GPA for all courses accepted in the major
- Complete at least 15 credits of honors courses in the major while in residence at UW-Madison. This requirement can be broken down as indicated below:
  - At least 9 credits from the Breadth and Depth course options in the Molecular and Cell Biology major
  - Complete two semester Senior Honors Thesis, a piece of original research composition.

Code	Title	Credits
MOL BIOL 681	Senior Honors Thesis	3
MOL BIOL 682	Senior Honors Thesis	3

- Complete one semester of the Molecular Biology senior honors seminar course.

Code	Title	Credits
MOL BIOL 686	Senior Honors Seminar in Molecular Biology	1

## FOOTNOTES

1

BIOCORE is a competitive honors program and certificate.

2

Students are encouraged to see their advisor for assistance in choosing depth coursework.

3

Courses accepted in the major that are Intermediate or Advanced are considered upper-level in this major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work

Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate the energetic and thermodynamic bases of life, with an emphasis on the molecular mechanisms underlying them
2. Integrate the nature of genetic material and its roles in inheritance, evolution, and cellular function
3. Summarize the fundamental relationship between the structure and function of biological macromolecules
4. Summarize the principles of cell structure, function, and biological dynamics
5. Appraise the molecular mechanisms and quantitative principles in biochemistry/physical chemistry, cellular systems, genetics, and microbiology.
6. Develop skills to communicate scientific information in oral and written form
7. Develop the ability to formulate hypotheses and plan, design, and carry out scientific experiments to test them
8. Developing quantitative reasoning skills and the ability to use quantitative approaches to understand basic principles of life.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Communication A		3 MATH 221	5
Quantitative Reasoning A		3-5 Ethnic Studies	3
CHEM 103		4 CHEM 104	5
Foreign Language (if needed)		3-4 Humanities Breadth	2
		<b>15</b>	<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151		5 ZOOLOGY/BIOLOGY/BOTANY 152	5
CHEM 343		3 CHEM 344	2
Social Science Breadth		3 CHEM 345	3
Humanities Breadth		3 STAT 371	3
INTER-LS 210 <sup>1</sup>		1 Elective	2
		<b>15</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
PHYSICS 207		5 PHYSICS 208	5
GENETICS 466		3 BIOCHEM 501	3
ZOOLOGY 570		3 Literature Breadth	3
Social Science Breadth		3 MOL BIOL 699 or Elective	3
MOL BIOL 699	1-4		
		<b>16</b>	<b>14</b>

**Senior**

Fall	Credits	Spring	Credits
Depth Coursework		3 Depth Coursework	3
Laboratory Course		2-4 MOL BIOL 699 or Elective	3
MOL BIOL 699 or Elective		3 Literature Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

1

INTER-LS 210 L&S Career Development: Taking Initiative is an option, but not required for students pursuing the Molecular and Cell Biology major.

**ADVISING AND CAREERS**

Students in the major are assigned to a team of advisors composed of a faculty advisor and the major's student services coordinator. See the major's advising page (<https://molecularbio.ls.wisc.edu/advising/>) for a list of advisors and for the student services coordinator information. The faculty advisor provides guidance specific to the molecular and cell biology discipline through discussions about undergraduate experiences (i.e., research, coursework, internships) that will help prepare students for graduate work or a career after graduation. The student services coordinator provides guidance specific to the discipline, and also helps students with major declarations, course selection, registration, DARS, L&S degree and major requirements, and tracking progress toward graduation, as well as connecting students with important resources on campus.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Committee of Advisors: Ahmad (Dermatology), Amann (Integrative Biology), Fabry (Pathology and Laboratory Medicine), Filutowicz (Bacteriology), Grinblat (Neuroscience), Martin (Biochemistry), McMahon (Civil Engineering and Environmental Engineering), Newmark (Integrative Biology), Otegui (Botany), Raman (Biochemistry), Schuler (Comparative Biosciences)

**RESOURCES AND SCHOLARSHIPS****HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP**

The Hilldale (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) Undergraduate/Faculty Research Fellowships support undergraduate research done in collaboration with UW-Madison faculty or research/instructional academic staff. Approximately 97-100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

**HOLSTROM ENVIRONMENTAL RESEARCH FELLOWSHIP**

The Holstrom Environmental Research Fellowship (<https://awards.advising.wisc.edu/all-scholarships/holstrom-environmental-research-fellowship/>) supports undergraduate research done in collaboration with UW-Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least a junior standing at time of application.

**SOPHOMORE RESEARCH FELLOWSHIP**

Funded by grants from the Brittingham Fund and the Kemper K. Knapp Bequest, the Sophomore Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/sophomore-research-fellowship/>) support undergraduate research done in collaboration with UW-Madison faculty or research/instructional academic staff. Approximately 15 awards are available.



## UNDERGRADUATE RESEARCH SCHOLARS

The Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>) (URS) program is dedicated to enhancing the academic experience of UW–Madison students by providing first- and second-year undergraduates with opportunities to earn credit for participating in research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/ artistic presentations. The many benefits of the program are found in the fluid interaction between these activities.

## UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity, achievement, research, service-learning, and community-based research from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences. This past year nearly 700 students presented, displayed, or performed their work for members of the university, the surrounding community, family, and friends.

## UNIVERSITY BOOK STORE AWARD

Supported by a generous grant from the University Book Store, (<https://awards.advising.wisc.edu/all-scholarships/university-book-store-award/>) this award recognizes undergraduate students who have completed an outstanding independent project, such as a senior thesis, at UW–Madison. Projects in all academic fields are eligible.

## WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working toward solving a challenge identified along with local or global community partners. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## NEUROBIOLOGY, B.A.

Neuroscience is the scientific study of the central (brain and spinal cord) and peripheral (nerves in body) nervous system. The neurobiology major at UW–Madison will provide a rigorous education in neuroscience principles that will prepare students for health-related careers (physician, physician assistant, veterinarian, dentist, neuroimaging technician, speech-language pathologist, neuropsychologist, drug rehabilitation counselor, physical therapists), academic careers (college and university faculty, research scientists, lab technician, K-12 teachers), and careers in pharmaceutical and biotech industries, venture capital and scientific consulting firms, medical and scientific journals, intellectual property law, neuroscience-related nonprofit organizations and foundations, and government agencies. UW–Madison is one of the leading universities in the world with more than 90 faculty engaged in neuroscience research and undergraduates will have access to this research faculty in formal classroom environments and through undergraduate research opportunities. Please see the Neurobiology Major (<https://neuromajor.wisc.edu/>) website for more information.

## ABOUT THE CURRICULUM

The curriculum is designed to give students a solid foundation in basic biology, chemistry, physics, and mathematics before going on to study

neuroscience at the molecular, cellular, systems, and cognitive levels. It is strongly encouraged that students engage in independent research in a neuroscience laboratory on campus. The Neurobiology Major Program Committee is committed to increasing opportunities for all students with interests in neuroscience and helping students accomplish their academic goals at UW–Madison. This major is tailored to attract students from a diverse array of backgrounds. Please see the Neurobiology Major website (<https://neuromajor.wisc.edu/>) for more information.

## HOW TO GET IN

The advisors for the Neurobiology Major (<https://neuromajor.wisc.edu/>) are committed to providing students with first-rate guidance through the major to graduation and beyond. Most students are ready to declare a major by the end of the 3rd or 4th semester. **If you are interested in declaring the Neurobiology Major, you must first make an appointment to meet with an advisor.**

See *our website* (<https://neuromajor.wisc.edu/advising/>) to schedule an appointment.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of

Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATH, STATISTICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics (complete one):</b>		<b>5</b>
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
MATH 275	Topics in Calculus I	
<b>Statistics (complete one):</b>		<b>3</b>
STAT 240	Data Science Modeling I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	

### General Chemistry (complete one): 5-9

CHEM 103 & CHEM 104 General Chemistry I and General Chemistry II

CHEM 109 Advanced General Chemistry

CHEM 115 & CHEM 116 Chemical Principles I and Chemical Principles II

### Organic Chemistry (complete one): 3-6

CHEM 341 Elementary Organic Chemistry

CHEM 343 & CHEM 345 Organic Chemistry I and Organic Chemistry II

### Physics (complete one) 8-10

PHYSICS 103 & PHYSICS 104 General Physics and General Physics

PHYSICS 201 & PHYSICS 202 General Physics and General Physics

PHYSICS 207 & PHYSICS 208 General Physics and General Physics

PHYSICS 247 & PHYSICS 248 A Modern Introduction to Physics and A Modern Introduction to Physics

**Total Credits 24-33**

## 30 CREDITS OF BIOLOGY AND NEUROBIOLOGY

Will be calculated from General Biology, Neurobiology, Lab/Research Experience and Additional Elective (if required) sections.

### General Biology

Code	Title	Credits
<b>Choose one of these three sequences:</b>		
<i>Introductory Biology</i>		<i>10</i>
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	
<i>Biology Core Curriculum</i>		<i>16-18</i>
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BIOCORE 485	Principles of Physiology	
BIOCORE 587	Biological Interactions	
<i>Plus two from:</i>		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	
<i>Animal Biology</i>		<i>10</i>
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

**Neurobiology**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<i>Required Neurobiology Courses</i>		
ZOOLOGY/ PSYCH 523	Neurobiology	3
PSYCH 454	Behavioral Neuroscience	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1
<i>Distributed Neuroscience Coursework—choose three courses</i>		
ANAT&PHY 335	Physiology <sup>1</sup>	
ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	
AN SCI/ DY SCI 373	Animal Physiology	
BIOCHEM 501	Introduction to Biochemistry <sup>1</sup>	
BIOCHEM 508	General Biochemistry II <sup>1</sup>	
BIOCHEM 630	<sup>1</sup>	
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease <sup>1</sup>	
B M E 520	Stem Cell Bioengineering <sup>1</sup>	
B M E 602	Special Topics in Biomedical Engineering (Introduction to Neuroengineering)	
CS&D 210	Neural Basis of Communication	
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	
ED PSYCH 326	Mind, Brain and Education	
ED PSYCH 506	Contemporary Issues in Educational Psychology (Brain & Behavioral Development)	
GENETICS 520	Neurogenetics	
KINES 531	Neural Control of Movement	
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	
NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior	
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	
NTP 632	Neuroscience of Psychedelics	
NTP/ MED PHYS 651	Methods for Neuroimaging Research	
NTP 666	Neuroscience of Consciousness and its Disorders	
NTP 670	Stem Cells and the Central Nervous System	
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	
NTP 675	Special Topics (Trauma and Physiology Therapy)	
NTP 675	Special Topics (Neuroendocrinology)	

NTP 675	Special Topics (Reproductive Neuroendocrinology)
NTP 675	Special Topics (Brain Mapping in Health and Disease: Applications)
NTP 677	Basic Sleep Mechanisms and Sleep Disorders: from Neurobiology to Sleep Medicine
PHM SCI 310	Drugs and Their Actions
PHM SCI/ PHM COL-M 521	Pharmacology I
PSYCH 406	Psychology of Perception
PSYCH 414	Cognitive Psychology
PSYCH 505	Depth Topic in Biological Science (Cognitive Neuroscience: Bridging Mind and Brain)
PSYCH 513	Hormones, Brain, and Behavior
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)
PSYCH 601	Current Topics in Psychology (Neuroeconomics)
PSYCH 603	Epigenetics and the Brain
PSYCH 606	Hormones and Behavior
PSYCH 612	Neuropharmacology
ZOOLOGY 400	Topics in Biology (Neural Movement Health&Disease)
ZOOLOGY 400	Topics in Biology (Neuroscience and Society)
ZOOLOGY 400	Topics in Biology (Neurogenetics of Sleep)
ZOOLOGY 400	Topics in Biology (Music and the Brain)
ZOOLOGY 400	Topics in Biology (Cell Biology: Neurons and Neural Circuits)
ZOOLOGY 470	Introduction to Animal Development <sup>1</sup>
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind
ZOOLOGY/ NTP 620	Neuroethology Seminar
ZOOLOGY 625	Development of the Nervous System
ZOOLOGY 655	Modeling Neurodevelopmental Disease
ZOOLOGY/ NEURODPT/ PSYCH 674	Behavioral Neuroendocrinology Seminar

**Lab/Research Experience**

Choose one option from the 3 listed: Neuroscience Laboratory Course OR Directed Study OR Honors/Senior Thesis.

Code	Title	Credits
<i>1. Neuroscience Laboratory Course—one course:<sup>2</sup></i>		
BIOCORE 486	Principles of Physiology Laboratory	
ANAT&PHY 435	Fundamentals of Human Physiology	
ZOOLOGY 555	Laboratory in Developmental Biology	
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab	
ZOOLOGY 612	Comparative Physiology Laboratory	
ZOOLOGY/ NEURODPT/ NTP 616	Lab Course in Neurobiology and Behavior	
<i>2. Directed Study—3 credits from:<sup>3</sup></i>		
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
B M E 399	Independent Study	
BMOLCHEM 699	Special Research Problems	
CBE 699	Advanced Independent Studies	
CHEM 699	Directed Study	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
CS&D 699	Directed Study	
ED PSYCH 470	Research Experience in Educational Psychology	
ED PSYCH 699	Independent Reading Undergrad	
FAM MED 699	Directed Study	
GENETICS 699	Special Problems	
H ONCOL 699	Independent Study in Human Cancer Biology	
KINES 399	Independent Study	
KINES 699	Independent Study	
MED PHYS 699	Independent Reading or Research	
MEDICINE 699	Independent Study	
MED SC-V 669	Small Animal Cardiology Rotation	
M M & I 699	Directed Study	
MOL BIOL 699	Directed Studies in Molecular Biology	
NEURSURG 699	Neurosurgery: Directed in Study in Research	
NEUROL 699	Directed Research in Neurology	
NEURODPT 699	Directed Study	
NUTR SCI 699	Special Problems	
OBS&GYN 699	Directed Study	
ONCOLOGY 699	Special Research Problems	
OPHTHALM 699	Directed Study	
PATH 699	Independent Study	
PATH-BIO 699	Directed Study	
PEDIAT 699	Independent Study	

PHMCOL-M 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHYSIOL 699	Independent Work
POP HLTH 699	Independent Reading
PSYCH 621	Mentored Research and Seminar
PSYCH 699	Directed Study
PSYCHIAT 699	Independent Study
SURGERY 699	Independent Study
SURG SCI 699	Directed Study
ZOOLOGY 699	Directed Studies in Zoology
<i>3. Honors/Senior Thesis (two semesters):</i>	
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
B M E 389 & B M E 489	Honors in Research and Honors in Research

**Additional Electives (if needed)**

Students may take additional credits from the list of Distributed Neuroscience Coursework, Independent/Directed study, or the following list, to attain 30 credits in the major:

Code	Title	Credits
ANAT&PHY 337	Human Anatomy	
ANAT&PHY 338	Human Anatomy Laboratory	
AN SCI/ DY SCI 362	Veterinary Genetics	
AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology	
AN SCI 610	Quantitative Genetics	
ANATOMY 329	Human Anatomy-Kinesiology	
BIOCHEM 507	General Biochemistry I	
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	
BIOCHEM 601	Protein and Enzyme Structure and Function	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	
F&W ECOL 401	Physiological Animal Ecology	
GENETICS 466	Principles of Genetics	
GENETICS 545	Genetics Laboratory	
GENETICS/ MD GENET 565	Human Genetics	
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	

KINES 200	Introductory Neuroscience
KINES 314	Physiology of Exercise
M M & I 301	Pathogenic Bacteriology
M M & I 341	Immunology
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I/ BIOCHEM 575	Biology of Viruses
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
MICROBIO 330	Host-Parasite Interactions
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms
MICROBIO 470	Microbial Genetics & Molecular Machines
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry
MICROBIO 526	Physiology of Microorganisms
MICROBIO 527	Advanced Laboratory Techniques in Microbiology
MICROBIO 551	Capstone Research Project in Microbiology
MICROBIO 607	Advanced Microbial Genetics
PATH-BIO/ M M & I 528	Immunology
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience
NTP 660	Neuroscience & Public Policy Seminar
NUTR SCI 431	Nutrition in the Life Span
NUTR SCI 631	Clinical Nutrition I
ONCOLOGY 401	Introduction to Experimental Oncology
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology
PSYCH 449	Animal Behavior
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
PSYCH 505	Depth Topic in Biological Science (Comparative Psychology: What Animals Think)
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology
ZOOLOGY 425	Behavioral Ecology
ZOOLOGY 430	Comparative Anatomy of Vertebrates
ZOOLOGY 470	Introduction to Animal Development

ZOOLOGY/ GEOSCI 541	Paleobiology
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
ZOOLOGY 570	Cell Biology

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>4</sup>
- 15 credits in in the major, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Neurobiology Major in consultation with the Neurobiology undergraduate advisor(s).

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Neurobiology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all major courses
- Complete 14 credits, taken for Honors, with individual grades of B or better, while in residence, to include:
  - Two courses from PSYCH 454, ZOOLOGY/PSYCH 523, and ZOOLOGY 500
  - One course from the Required Neuroscience or Distributed Neuroscience course lists (above), taken for honors credit
  - A two-semester Senior Honors Thesis<sup>5</sup>, for a total of 6 credits, from:

Code	Title	Credits
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
B M E 389 & B M E 489	Honors in Research and Honors in Research	
CHEM 681 & CHEM 682	Senior Honors Thesis and Senior Honors Thesis	
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis	
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis	
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2	
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis	
PSYCH 681 & PSYCH 682	Senior Honors Thesis and Senior Honors Thesis	
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	

## FOOTNOTES

1

Students may apply only one DNS course toward the elective requirement

2

Lab courses may also count in the Distributed Neuroscience Coursework above.

3

Only Directed Study courses taken **after**—and not concurrent with—the completion of an Introductory Biology sequence are accepted in the major.

4

Major courses numbered 300–699 are considered upper-level.

5

The Senior Honors Thesis project must be approved by the Neurobiology Major Program Committee at least one month before beginning the first course (681). The project must focus on its relevance to a neuroscience-related topic. Please see the Neurobiology major website (<https://neuromajor.wisc.edu/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of basic concepts in biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate understanding of the ionic basis for the neuronal membrane potential and action potential, and as well as the factors that determine neuronal excitability.
3. Demonstrate understanding of the basic mechanisms for synaptic transmission, neurotransmitter release, postsynaptic effects, and modulation of pre- and postsynaptic mechanisms. Predict how specific physiological and pathological conditions alter neuronal function at the cellular and synaptic levels.
4. Differentiate between examples of neuroplasticity at cellular, systems, and organismal levels.
5. Demonstrate understanding of central and peripheral neuroanatomy, basic functions of brain regions, and well-known neural pathways.

Predict how localized disruptions of neuronal function alter behavior, motor function, or perception.

6. Demonstrate understanding of basic principles underlying motor function, sensory function (auditory, visual, touch, taste), emotion, autonomic regulation, and higher order cognitive functions (language, memory, attention, decision-making).

7. Demonstrate how experimental tools in neuroscience are used to address experimental questions, such as intra/extracellular recording, molecular biology techniques, immunohistochemical staining, fluorescent and electron microscopy, genetic manipulation, brain imaging, behavioral testing.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

The grid below is a suggested plan for finishing your Neurobiology major in 4 years. Please see an advisor for more information, as you may have completed some of the requirements listed.

#### Freshman

Fall	Credits	Spring	Credits
Communication A	3	Ethnic Studies	3
Quantitative Reasoning A	3	MATH 221	5
Foreign Language (if required)	4	L&S Breadth	3
CHEM 103 or 109	4	CHEM 104	5
	<b>14</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>1</sup>	5	BIOLOGY/BOTANY/ ZOOLOGY 152	5
CHEM 343	3	CHEM 345	3
INTER-LS 210 (optional)	1	Social Science Breadth	3
Social Science Breadth	3	PHYSICS 207 <sup>2</sup>	5
	<b>12</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
Declare the Major <sup>3</sup>		PSYCH 454	3–4
ZOOLOGY/PSYCH 523	3	Distributed Neuroscience Course	2–4
STAT 371	3	L&S Breadth	3
L&S Breadth	3	Elective	3
PHYSICS 208	5	Lab Research	3
Lab Research <sup>4</sup>	3		
	<b>17</b>		<b>16</b>

**Senior**

Fall	Credits	Spring	Credits
Distributed Neuroscience Course	3-4	ZOOLOGY 500	1
Social Science Breadth	3	Distributed Neuroscience Course	3
Electives	6	L&S Breadth	3
Lab Research	3	Social Science Breadth	3
		Lab Research	3
		<b>16</b>	<b>13</b>

**Total Credits 120**

1

There are several options for fulfilling the introductory biology requirement. See listed Requirements.

2

There are several options for fulfilling the Physics requirement. See listed Requirements.

3

Students must declare a major by the time they reach 86 credits.

4

It is recommended that students in the Neurobiology major participate in multiple semesters of research.

students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**ADVISING AND CAREERS****NEUROBIOLOGY MAJOR ADVISING**

The advisors for the neurobiology major are committed to providing students with first-rate guidance through the major and to graduation. The neurobiology major advisors are also dedicated to helping a student focus their future plans after undergraduate study. If you are interested in declaring the neurobiology major, make an appointment to discuss this.

**CONTACT INFORMATION**

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 robert.wiedenhoef@wisc.edu  
 Starfish (<http://go.wisc.edu/MeetBobW/>)

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps

**PEOPLE**

Neurobiology is a major in the Department of Integrative Biology. The faculty in this department are:

Professors: Hardin (chair, [jdhardin@wisc.edu](mailto:jdhardin@wisc.edu)), Bement, Blair, Damschen, Gammie, Halloran, Ives, Lee, Newmark, Orrock, Ritters, Stanley, Stretton, Turner, and Vander Zanden

Associate Professors Amann, Grinblat, and Jensen

Assistant Professors Dugan, Sharma, Wang, and Weber

**Neurobiology Major Steering Committee:** Michelle Ciucci (chair, Departments of Communication Disorders and Surgery), Stephen Gammie (Department of Integrative Biology), Vaishali Bakshi (Department of Psychiatry), Darcie Moor (Department of Neuroscience), Yuri Saalman (Department of Psychology).

**NEUROBIOLOGY, B.S.**

Neuroscience is the scientific study of the central (brain and spinal cord) and peripheral (nerves in body) nervous system. The neurobiology major at UW-Madison will provide a rigorous education in neuroscience principles that will prepare students for health-related careers (physician, physician assistant, veterinarian, dentist, neuroimaging technician, speech-language pathologist, neuropsychologist, drug rehabilitation counselor, physical therapists), academic careers (college and university faculty, research scientists, lab technician, K-12 teachers), and careers in pharmaceutical and biotech industries, venture capital and scientific

consulting firms, medical and scientific journals, intellectual property law, neuroscience-related nonprofit organizations and foundations, and government agencies. UW–Madison is one of the leading universities in the world with more than 90 faculty engaged in neuroscience research and undergraduates will have access to this research faculty in formal classroom environments and through undergraduate research opportunities. Please see the Neurobiology Major (<https://neuromajor.wisc.edu>) website for more information.

## ABOUT THE CURRICULUM

The curriculum is designed to give students a solid foundation in basic biology, chemistry, physics, and mathematics before going on to study neuroscience at the molecular, cellular, systems, and cognitive levels. It is strongly encouraged that students engage in independent research in a neuroscience laboratory on campus. The Neurobiology Major Program Committee is committed to increasing opportunities for all students with interests in neuroscience and helping students accomplish their academic goals at UW–Madison. This major is tailored to attract students from a diverse array of backgrounds. Please see the Neurobiology Major website (<https://neuromajor.wisc.edu>) for more information.

## HOW TO GET IN

The advisors for the Neurobiology Major (<https://neuromajor.wisc.edu/>) are committed to providing students with first-rate guidance through the major to graduation and beyond. Most students are ready to declare a major by the end of the 3rd or 4th semester. **If you are interested in declaring the Neurobiology Major, you must first make an appointment to meet with an advisor.**

See our website (<https://neuromajor.wisc.edu/advising/>) to schedule an appointment.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the



major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATH, STATISTICS, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Mathematics (complete one):</b>		<b>5</b>
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
MATH 275	Topics in Calculus I	
<b>Statistics (complete one):</b>		<b>3</b>
STAT 240	Data Science Modeling I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT/B M I 541	Introduction to Biostatistics	
<b>General Chemistry (complete one):</b>		<b>5-9</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Organic Chemistry (complete one):</b>		<b>3-6</b>
CHEM 341	Elementary Organic Chemistry	
CHEM 343 & CHEM 345	Organic Chemistry I and Organic Chemistry II	
<b>Physics (complete one)</b>		<b>8-10</b>
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 247 & PHYSICS 248	A Modern Introduction to Physics and A Modern Introduction to Physics	
<b>Total Credits</b>		<b>24-33</b>

## 30 CREDITS OF BIOLOGY AND NEUROBIOLOGY

Will be calculated from General Biology, Neurobiology, Lab/Research Experience and Additional Elective (if required) sections.

### General Biology

Code	Title	Credits
<b>Choose one of these three sequences:</b>		
<i>Introductory Biology</i>		<i>10</i>
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology	
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	

*Biology Core Curriculum*

16-18

BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 383	Cellular Biology	
BIOCORE 485	Principles of Physiology	
BIOCORE 587	Biological Interactions	
<i>Plus two from:</i>		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	
<i>Animal Biology</i>		<i>10</i>
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	
BOTANY/ BIOLOGY 130	General Botany	

### Neurobiology

Code	Title	Credits
<i>Required Neurobiology Courses</i>		
ZOOLOGY/ PSYCH 523	Neurobiology	3
PSYCH 454	Behavioral Neuroscience	3
ZOOLOGY 500	Undergraduate Neurobiology Seminar	1
<i>Distributed Neuroscience Coursework—choose three courses</i>		
ANAT&PHY 335	Physiology <sup>1</sup>	
ANAT&PHY 435	Fundamentals of Human Physiology <sup>1</sup>	
AN SCI/ DY SCI 373	Animal Physiology	
BIOCHEM 501	Introduction to Biochemistry <sup>1</sup>	
BIOCHEM 508	General Biochemistry II <sup>1</sup>	
BIOCHEM 630	<sup>1</sup>	
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease <sup>1</sup>	
B M E 520	Stem Cell Bioengineering <sup>1</sup>	
B M E 602	Special Topics in Biomedical Engineering (Introduction to Neuroengineering)	
CS&D 210	Neural Basis of Communication	
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	
ED PSYCH 326	Mind, Brain and Education	
ED PSYCH 506	Contemporary Issues in Educational Psychology (Brain & Behavioral Development)	
GENETICS 520	Neurogenetics	
KINES 531	Neural Control of Movement	
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	

NTP/ZOOLOGY 616	Lab Course in Neurobiology and Behavior
NTP/NEURODPT 629	Molecular and Cellular Mechanisms of Memory
NTP 632	Neuroscience of Psychedelics
NTP/MED PHYS 651	Methods for Neuroimaging Research
NTP 666	Neuroscience of Consciousness and its Disorders
NTP 670	Stem Cells and the Central Nervous System
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)
NTP 675	Special Topics (Trauma and Physiology Therapy)
NTP 675	Special Topics (Neuroendocrinology)
NTP 675	Special Topics (Reproductive Neuroendocrinology)
NTP 675	Special Topics (Brain Mapping in Health and Disease: Applications)
NTP 677	Basic Sleep Mechanisms and Sleep Disorders: from Neurobiology to Sleep Medicine
PHM SCI 310	Drugs and Their Actions
PHM SCI/PHM COL-M 521	Pharmacology I
PSYCH 406	Psychology of Perception
PSYCH 414	Cognitive Psychology
PSYCH 505	Depth Topic in Biological Science (Cognitive Neuroscience: Bridging Mind and Brain)
PSYCH 513	Hormones, Brain, and Behavior
PSYCH 601	Current Topics in Psychology (Neural Basis of Cognitive Control)
PSYCH 601	Current Topics in Psychology (Neuroeconomics)
PSYCH 603	Epigenetics and the Brain
PSYCH 606	Hormones and Behavior
PSYCH 612	Neuropharmacology
ZOOLOGY 400	Topics in Biology (Neural Movement Health&Disease)
ZOOLOGY 400	Topics in Biology (Neuroscience and Society)
ZOOLOGY 400	Topics in Biology (Neurogenetics of Sleep)
ZOOLOGY 400	Topics in Biology (Music and the Brain)
ZOOLOGY 400	Topics in Biology (Cell Biology: Neurons and Neural Circuits)
ZOOLOGY 470	Introduction to Animal Development 1
ZOOLOGY 555	Laboratory in Developmental Biology

ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY/ANTHRO/NTP/PSYCH 619	Biology of Mind
ZOOLOGY/NTP 620	Neuroethology Seminar
ZOOLOGY 625	Development of the Nervous System
ZOOLOGY 655	Modeling Neurodevelopmental Disease
ZOOLOGY/NEURODPT/PSYCH 674	Behavioral Neuroendocrinology Seminar

### Lab/Research Experience

Choose one option from the 3 listed: Neuroscience Laboratory Course OR Directed Study OR Honors/Senior Thesis.

Code	Title	Credits
<i>1. Neuroscience Laboratory Course—one course:<sup>2</sup></i>		
BIOCORE 486	Principles of Physiology Laboratory	
ANAT&PHY 435	Fundamentals of Human Physiology	
ZOOLOGY 555	Laboratory in Developmental Biology	
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab	
ZOOLOGY 612	Comparative Physiology Laboratory	
ZOOLOGY/NEURODPT/NTP 616	Lab Course in Neurobiology and Behavior	
<i>2. Directed Study—3 credits from:<sup>3</sup></i>		
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
B M E 399	Independent Study	
BMOLCHEM 699	Special Research Problems	
CBE 699	Advanced Independent Studies	
CHEM 699	Directed Study	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
CS&D 699	Directed Study	
ED PSYCH 470	Research Experience in Educational Psychology	
ED PSYCH 699	Independent Reading Undergrad	
FAM MED 699	Directed Study	
GENETICS 699	Special Problems	
H ONCOL 699	Independent Study in Human Cancer Biology	
KINES 399	Independent Study	
KINES 699	Independent Study	
MED PHYS 699	Independent Reading or Research	

MEDICINE 699	Independent Study
MED SC-V 669	Small Animal Cardiology Rotation
M M & I 699	Directed Study
MOL BIOL 699	Directed Studies in Molecular Biology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NEUROL 699	Directed Research in Neurology
NEURODPT 699	Directed Study
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHMCOL-M 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHYSIOL 699	Independent Work
POP HLTH 699	Independent Reading
PSYCH 621	Mentored Research and Seminar
PSYCH 699	Directed Study
PSYCHIAT 699	Independent Study
SURGERY 699	Independent Study
SURG SCI 699	Directed Study
ZOOLOGY 699	Directed Studies in Zoology
<b>3. Honors/Senior Thesis (two semesters):</b>	
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
B M E 389 & B M E 489	Honors in Research and Honors in Research

### Additional Electives (if needed)

Students may take additional credits from the list of Distributed Neuroscience Coursework, Independent/Directed study, or the following list, to attain 30 credits in the major:

Code	Title	Credits
ANAT&PHY 337	Human Anatomy	
ANAT&PHY 338	Human Anatomy Laboratory	
AN SCI/ DY SCI 362	Veterinary Genetics	
AN SCI/ DY SCI 434	Reproductive Physiology	
AN SCI/ F&W ECOL/ ZOOLOGY 520	Ornithology	
AN SCI 610	Quantitative Genetics	
ANATOMY 329	Human Anatomy-Kinesiology	
BIOCHEM 507	General Biochemistry I	
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	

BIOCHEM 601	Protein and Enzyme Structure and Function
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals
F&W ECOL 401	Physiological Animal Ecology
GENETICS 466	Principles of Genetics
GENETICS 545	Genetics Laboratory
GENETICS/ MD GENET 565	Human Genetics
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology
KINES 200	Introductory Neuroscience
KINES 314	Physiology of Exercise
M M & I 301	Pathogenic Bacteriology
M M & I 341	Immunology
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I/ BIOCHEM 575	Biology of Viruses
MICROBIO 303	Biology of Microorganisms
MICROBIO 304	Biology of Microorganisms Laboratory
MICROBIO 330	Host-Parasite Interactions
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms
MICROBIO 470	Microbial Genetics & Molecular Machines
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry
MICROBIO 526	Physiology of Microorganisms
MICROBIO 527	Advanced Laboratory Techniques in Microbiology
MICROBIO 551	Capstone Research Project in Microbiology
MICROBIO 607	Advanced Microbial Genetics
PATH-BIO/ M M & I 528	Immunology
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience
NTP 660	Neuroscience & Public Policy Seminar
NUTR SCI 431	Nutrition in the Life Span
NUTR SCI 631	Clinical Nutrition I

ONCOLOGY 401	Introduction to Experimental Oncology
ONCOLOGY/ PL PATH 640	General Virology–Multiplication of Viruses
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology
PSYCH 449	Animal Behavior
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior
PSYCH 505	Depth Topic in Biological Science (Comparative Psychology: What Animals Think)
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology
ZOOLOGY 425	Behavioral Ecology
ZOOLOGY 430	Comparative Anatomy of Vertebrates
ZOOLOGY 470	Introduction to Animal Development
ZOOLOGY/ GEOSCI 541	Paleobiology
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
ZOOLOGY 570	Cell Biology

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>4</sup>
- 15 credits in in the major, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Neurobiology Major in consultation with the Neurobiology undergraduate advisor(s).

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Neurobiology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all major courses
- Complete 14 credits, taken for Honors, with individual grades of B or better, while in residence, to include:
  - Two courses from PSYCH 454, ZOOLOGY/PSYCH 523, and ZOOLOGY 500
  - One course from the Required Neuroscience or Distributed Neuroscience course lists (above), taken for honors credit
  - A two-semester Senior Honors Thesis<sup>5</sup>, for a total of 6 credits, from:

Code	Title	Credits
BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	

B M E 389 & B M E 489	Honors in Research and Honors in Research
CHEM 681 & CHEM 682	Senior Honors Thesis and Senior Honors Thesis
CS&D 681 & CS&D 682	Senior Honors Thesis and Senior Honors Thesis
GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis
H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
PSYCH 681 & PSYCH 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis

## FOOTNOTES

**1**  
Students may apply only one DNS course toward the elective requirement

**2**  
Lab courses may also count in the Distributed Neuroscience Coursework above.

**3**  
Only Directed Study courses taken **after**—and not concurrent with—the completion of an Introductory Biology sequence are accepted in the major.

**4**  
Major courses numbered 300–699 are considered upper-level.

**5**  
The Senior Honors Thesis project must be approved by the Neurobiology Major Program Committee at least one month before beginning the first course (681). The project must focus on its relevance to a neuroscience-related topic. Please see the Neurobiology major website (<https://neuromajor.wisc.edu/>) for more information.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate understanding of basic concepts in biology, chemistry, mathematics, statistics, and physics.
2. Demonstrate understanding of the ionic basis for the neuronal membrane potential and action potential, and as well as the factors that determine neuronal excitability.
3. Demonstrate understanding of the basic mechanisms for synaptic transmission, neurotransmitter release, postsynaptic effects, and modulation of pre- and postsynaptic mechanisms. Predict how specific physiological and pathological conditions alter neuronal function at the cellular and synaptic levels.
4. Differentiate between examples of neuroplasticity at cellular, systems, and organismal levels.
5. Demonstrate understanding of central and peripheral neuroanatomy, basic functions of brain regions, and well-known neural pathways. Predict how localized disruptions of neuronal function alter behavior, motor function, or perception.
6. Demonstrate understanding of basic principles underlying motor function, sensory function (auditory, visual, touch, taste), emotion, autonomic regulation, and higher order cognitive functions (language, memory, attention, decision-making).
7. Demonstrate how experimental tools in neuroscience are used to address experimental questions, such as intra/extracellular recording, molecular biology techniques, immunohistochemical staining, fluorescent and electron microscopy, genetic manipulation, brain imaging, behavioral testing.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

The grid below is a suggested plan for finishing your Neurobiology major in 4 years. Please see an advisor for more information, as you may have completed some of the requirements listed.

#### Freshman

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies	3
Quantitative Reasoning A		3 MATH 221	5
Foreign Language (if required)		4 L&S Breadth	3

CHEM 103 or 109	4	CHEM 104	5
	<b>14</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 <sup>1</sup>	5	BIOLOGY/BOTANY/ ZOOLOGY 152	5
CHEM 343	3	CHEM 345	3
INTER-LS 210 (optional)	1	Social Science Breadth	3
Social Science Breadth	3	PHYSICS 207 <sup>2</sup>	5
	<b>12</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
Declare the Major <sup>3</sup>		PSYCH 454	3-4
ZOOLOGY/PSYCH 523	3	Distributed Neuroscience Course	2-4
STAT 371	3	L&S Breadth	3
L&S Breadth	3	Elective	3
PHYSICS 208	5	Lab Research	3
Lab Research <sup>4</sup>	3		
	<b>17</b>		<b>16</b>

#### Senior

Fall	Credits	Spring	Credits
Distributed Neuroscience Course	3-4	ZOOLOGY 500	1
Social Science Breadth	3	Distributed Neuroscience Course	3
Electives	6	L&S Breadth	3
Lab Research	3	Social Science Breadth Lab Research	3
	<b>16</b>		<b>13</b>

#### Total Credits 120

1

There are several options for fulfilling the introductory biology requirement. See listed Requirements.

2

There are several options for fulfilling the Physics requirement. See listed Requirements.

3

Students must declare a major by the time they reach 86 credits.

4

It is recommended that students in the Neurobiology major participate in multiple semesters of research.

## ADVISING AND CAREERS

### NEUROBIOLOGY MAJOR ADVISING

The advisors for the neurobiology major are committed to providing students with first-rate guidance through the major and to graduation. The neurobiology major advisors are also dedicated to helping a student

focus their future plans after undergraduate study. If you are interested in declaring the neurobiology major, make an appointment to discuss this.

## CONTACT INFORMATION

Catherine Auger  
Birge Hall, Room B156  
430 Lincoln Drive  
cauger@wisc.edu  
Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

India Viola  
Birge Hall, Room 244  
430 Lincoln Drive  
irviola@wisc.edu  
Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>)

Bob Wiedenhoeft  
Birge Hall, Room 338  
430 Lincoln Drive  
robert.wiedenhoeft@wisc.edu  
Starfish (<http://go.wisc.edu/MeetBobW/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Neurobiology is a major in the Department of Integrative Biology. The faculty in this department are:

Professors: Hardin (chair, [jdhardin@wisc.edu](mailto:jdhardin@wisc.edu)), Bement, Blair, Damschen, Gammie, Halloran, Ives, Lee, Newmark, Orrock, Ritters, Stanley, Stretton, Turner, and Vander Zanden

Associate Professors Amann, Grinblat, and Jensen

Assistant Professors Dugan, Sharma, Wang, and Weber

**Neurobiology Major Steering Committee:** Michelle Ciucci (chair, Departments of Communication Disorders and Surgery), Stephen Gammie (Department of Integrative Biology), Vaishali Bakshi (Department of Psychiatry), Darcie Moor (Department of Neuroscience), Yuri Saalman (Department of Psychology).

## ZOOLOGY, B.A.

The zoology major is a gateway to the diverse areas of modern biology. The major can be tailored to prepare students for advanced study and careers in many different areas: health professions and public health; law; life sciences research in university, government, and industrial settings; education including museum, nature center, secondary school, and college teaching; biotechnology; and environmental studies.

Specialized preparation is offered in ecology, systematics, limnology, morphology, molecular biology, cellular biology, developmental biology, genetics, neurobiology, physiology, evolution, and behavior. Several possible areas, emphasizing different interests, are outlined in the requirements tab. They include ecology, evolution, and behavior; anatomy, physiology, and organismal biology; and cellular, molecular, and developmental biology. The department encourages undergraduate participation in research and offers summer research scholarships to outstanding students.

## GOALS OF THE ZOOLOGY MAJOR

The zoology major emphasizes critical thinking and conceptual skills that come from an understanding of how scientific information is obtained and evaluated, and of how this information can be applied to societal issues. The major provides a solid foundation in genetic, cellular, physiological, ecological, and evolutionary principles, and in the related disciplines of chemistry, physics, and mathematics. As a result, the major fosters an understanding of biological complexity including the interrelationships among humans and natural systems.

The unique characteristics of the zoology major include:

- broad-based, yet integrated training in wide-ranging areas of biology;
- solid foundation of basic principles and processes in biology;
- flexibility and advising needed to allow students to tailor the major to their specific goals;
- wide range of opportunities for undergraduate involvement in independent research and senior thesis.

## HOW TO GET IN

All students who are interested in pursuing the zoology major must schedule an appointment with the Zoology Major advisor (<https://integrativebiology.wisc.edu/undergraduate-programs/zoology-major/>)

zoology-undergraduate-major-advising/). No major declaration forms are required to declare zoology major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Math—complete one:</b>		<b>5-10</b>
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
<b>Chemistry—complete one:</b>		<b>5-9</b>
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
<b>Physics—complete one:</b>		<b>8-10</b>
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	

**Total Credits** **18-29**

## 30 CREDITS IN BIOLOGY AND ZOOLOGY COURSEWORK

### Introductory Biology

Code	Title	Credits
<b>Option 1: Introductory Biology</b>		<b>10</b>
ZOOLOGY/ BIOLOGY/ BOTANY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	
<b>Option 2: BIOCORE—complete both:</b>		<b>10</b>
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383 & BIOCORE 384	Cellular Biology and Cellular Biology Laboratory	
<b>Option 3: Animal Biology<sup>1</sup></b>		<b>5</b>
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
<b>Total Credits</b>		<b>5-10</b>

1

BOTANY/BIOLOGY 130 is recommended, but not required for students pursuing Option 3 (Animal Biology).

### Electives

Code	Title	Credits
ZOOLOGY 299	Directed Studies in Zoology	
ZOOLOGY 300	Invertebrate Biology and Evolution	
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	
ZOOLOGY/ ENTOM 302	Introduction to Entomology	
MICROBIO 303	Biology of Microorganisms	
ZOOLOGY 303	Aquatic Invertebrate Biology	
MICROBIO 304	Biology of Microorganisms Laboratory	
ZOOLOGY 304	Marine Biology	
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
ZOOLOGY/ ENVIR ST 315	Limnology—Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology— Conservation of Aquatic Resources	
ANAT&PHY 335	Physiology <sup>1</sup>	
ZOOLOGY/ F&W ECOL 335	Human/Animal Relationships: Biological and Philosophical Issues	
ANAT&PHY 338	Human Anatomy Laboratory	
M M & I 341	Immunology	
ZOOLOGY/ ENTOM/M M & I/ PATH-BIO 350	Parasitology	

ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	
ENVIR ST/ LAND ARC 361	Wetlands Ecology	
ZOOLOGY/ ENTOM 371	Medical Entomology	
ENVIR ST 375	Field Ecology Workshop	
ZOOLOGY 400	Topics in Biology	
ZOOLOGY 405	Introduction to Museum Studies in the Natural Sciences	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
ZOOLOGY 425	Behavioral Ecology	
ZOOLOGY 430	Comparative Anatomy of Vertebrates	
PSYCH 449	Animal Behavior	
ENTOM 450	Basic and Applied Insect Ecology	
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	
ZOOLOGY/ BOTANY 450	Midwestern Ecological Issues: A Case Study Approach	
PSYCH 454	Behavioral Neuroscience	
ANTHRO 458	Primate Behavioral Ecology	
ZOOLOGY/ BOTANY/ F&W ECOL 460	General Ecology	
GENETICS 466	Principles of Genetics	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY/ BOTANY/ ENTOM 473	Plant-Insect Interactions	
ZOOLOGY 500	Undergraduate Neurobiology Seminar	
BIOCHEM 501	Introduction to Biochemistry	
ZOOLOGY 504	Modeling Animal Landscapes	
BIOCHEM 507	General Biochemistry I	
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology	
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin	
ZOOLOGY/ PSYCH 523	Neurobiology	
ZOOLOGY 525	Tropical Herpetology	
M M & I/PATH- BIO 528	Immunology	
ZOOLOGY/ GEOSCI 541	Paleobiology	



ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
GENETICS 545	Genetics Laboratory
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY/ F&W ECOL/ LAND ARC 565	Principles of Landscape Ecology
ZOOLOGY 570	Cell Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab
F&W ECOL/ ENTOM/ PL PATH/ SOIL SCI 606	Colloquium in Environmental Toxicology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY 612	Comparative Physiology Laboratory
ZOOLOGY/ NEURODPT/ NTP 616	Lab Course in Neurobiology and Behavior
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind
ZOOLOGY/ NTP 620	Neuroethology Seminar
ZOOLOGY/ ENTOM/ GENETICS 624	Molecular Ecology
ZOOLOGY 625	Development of the Nervous System
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
ZOOLOGY 655	Modeling Neurodevelopmental Disease
ZOOLOGY/ F&W ECOL 660	Climate Change Ecology
ANTHRO 668	Primate Conservation
ZOOLOGY/ BOTANY/ F&W ECOL 672	Historical Ecology
ZOOLOGY/ NEURODPT/ PSYCH 674	Behavioral Neuroendocrinology Seminar
ZOOLOGY 677	Internship in Ecology
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
ZOOLOGY 698	Directed Study

ZOOLOGY 699	Directed Studies in Zoology	<b>20-25</b>
<b>Total Credits</b>		<b>20-25</b>

A maximum of 6 credits of approved non-ZOOLOGY subject courses count toward the 30 credits required for the major. Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

1

Only 3 credits of ANAT&PHY 335 Physiology count toward the 6 credits of approved non-ZOOLOGY subject courses.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ZOOLOGY and major courses
- 2.000 GPA on 15 Upper Level major credits, taken in Residence<sup>1</sup>
- 15 credits in ZOOLOGY, or courses that count for the major, taken on the UW-Madison campus

1

ZOOLOGY 299-699, intermediate/advanced BIOCORE, and courses that count toward the major that have an intermediate/advanced designation are considered Upper Level in the major.

## HONORS IN THE ZOOLOGY MAJOR

To earn Honors in the Major in Zoology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all courses that count toward the major
- Complete 12 credits, taken for Honors, with individual grades of B or better. Select 6 credits from ZOOLOGY 300-680 or approved non-ZOOLOGY subject courses (above).
- Complete ZOOLOGY 681 and ZOOLOGY 682, for a total of 6 credits.<sup>1</sup>

1

A written thesis proposal must be approved by the thesis mentor and a department advisor. While most theses are completed during the fall and spring of a student's senior year, other combinations of terms are possible. More information about the proposal process, timing, and grading of a thesis can be found on the Department of Integrative Biology website.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Connect and describe the concepts that make up the structure and function of all living things through the principles of genetics, cellular biology, and physiology.
2. Demonstrate an understanding of the diversity of life through the principles of evolution.
3. Make connections between organisms, their habitats, and systems through the principles of ecology.
4. Make connections between the biological sciences to humans and ecological systems and appreciate the complexity of these systems.
5. Identify, think through, and solve a problem using quantitative reasoning and critical thinking skills.
6. Develop an ability to plan and carry out scientific experiments by obtaining and evaluating scientific information and effectively communicating information through oral and written presentations.
7. Understand current issues in biology and apply scientific knowledge to societal issues.
8. Make connections between self and natural world, and personal responsibility with social issues.
9. Develop a sense of competence in the field of study through research experiences and written and oral communication of findings.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
MATH 112, 114, or 171	3-5	MATH 113 or 217	3-5
Communication A <sup>1</sup>	3	L&S Breadth	3
Foreign Language (if required)	3-4	Social Science Breadth	3
	<b>14</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151 <sup>1</sup>	5	ZOOLOGY/BIOLOGY/BOTANY 152 (Satisfies Communication B) <sup>1</sup>	5
Ethnic Studies	3	L&S Breadth	3
INTER-LS 210	1	Social Science Breadth	3
Social Science Breadth	3	Elective	3
Elective	4		
	<b>16</b>		<b>14</b>

#### Junior

Fall	Credits	Spring	Credits
PHYSICS 103, 201, or 207	4-5	PHYSICS 104, 202, or 208	4-5
I/A COMP SCI, MATH, or STAT (if required for the BS)	3-5	I/A COMP SCI, MATH, or STAT (required for the BS)	3-5
I/A ZOOLOGY	3-6	I/A ZOOLOGY	4
Elective	3	L&S Breadth	3
	<b>16</b>		<b>14</b>

#### Senior

Fall	Credits	Spring	Credits
I/A ZOOLOGY	3-4	I/A ZOOLOGY	3-4
Elective	3-4	I/A ZOOLOGY	3-4
L&S Breadth	3	Elective	6
Elective	3-6	Social Science Breadth	3
	<b>17</b>		<b>15</b>

#### Total Credits 120

1

Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

Student may also satisfy Introductory Biology with BIOCORE. Consult the advisor for the program regarding this option.

## ADVISING AND CAREERS

### ADVISING

Students are encouraged to consult with a department advisor to construct individual programs appropriate to their own needs. Please use Starfish or call 608-262-2742 to make an appointment with the zoology advisor. iBio Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/78583/schedule>)

### DIRECTED STUDY

The zoology major is an excellent scaffold for students interested in an undergraduate research experience. A maximum of 10 credits of Directed Studies (ZOOLOGY 299, ZOOLOGY 698, ZOOLOGY 699), Senior Thesis (ZOOLOGY 691, ZOOLOGY 692), or Senior Honors Thesis (ZOOLOGY 681, ZOOLOGY 682) will count toward the 30 credits required for the major.

The Department of Integrative Biology offers both ZOOLOGY 299 Directed Studies in Zoology and ZOOLOGY 699 Directed Studies in Zoology. ZOOLOGY 299 is recommended for students before they have completed their introductory biology course sequence, and ZOOLOGY 699 is recommended for students who have completed their introductory biology course sequence. Directed Studies in Zoology are graded on an A to F scale. Students cannot take Directed Studies on a pass/fail basis.

Directed Studies allows students to gain experience in a wide range of research areas in biology and to learn research techniques that are not easily taught in the classroom. Such experiences allow students to make more informed decisions about their future goals and careers.

Before students can enroll in ZOOLOGY 299 or ZOOLOGY 699, they must set up an appointment with a professor/mentor of their choice, and work with the professor/mentor to:

1. Decide the specific number of credits, and
2. Plan the work required to earn those credits.

Such plans can involve reviewing relevant literature in the area, developing a proposal for independent research, and/or conducting an experiment in the mentor's study area.

Students interested in doing in-depth research as undergraduates in an area of interest can elect to do a Senior Thesis or Senior Honors Thesis (see below). Students should contact a department advisor at the beginning of their junior year to explore possible research areas.

## SENIOR THESIS

Students interested in making a longer-term commitment to a research project may consider undertaking a Senior Thesis. Students should contact a department advisor during their junior year to explore possible research areas in zoology.

Zoology Senior Thesis Requirements:

1. Approval of a department advisor, and
2. Completion of ZOOLOGY 691 and ZOOLOGY 692, a two-semester thesis research sequence, during the senior year (6 credits).

It is recommended that candidates for the Senior Thesis take ZOOLOGY 699 during second semester junior year to prepare for the thesis.

## CAREERS

The Department of Integrative Biology encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science (<https://careers.ls.wisc.edu/>). L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Faculty (<https://integrativebiology.wisc.edu/faculty/>) and Affiliate Faculty (<https://integrativebiology.wisc.edu/affiliated-faculty/>) pages on the Integrative Biology website for information about our faculty and their research areas.

## ZOOLOGY, B.S.

The zoology major is a gateway to the diverse areas of modern biology. The major can be tailored to prepare students for advanced study and careers in many different areas: health professions and public health; law; life sciences research in university, government, and industrial settings; education including museum, nature center, secondary school, and college teaching; biotechnology; and environmental studies.

Specialized preparation is offered in ecology, systematics, limnology, morphology, molecular biology, cellular biology, developmental biology, genetics, neurobiology, physiology, evolution, and behavior. Several possible areas, emphasizing different interests, are outlined in the requirements tab. They include ecology, evolution, and behavior; anatomy, physiology, and organismal biology; and cellular, molecular, and developmental biology. The department encourages undergraduate participation in research and offers summer research scholarships to outstanding students.

## GOALS OF THE ZOOLOGY MAJOR

The zoology major emphasizes critical thinking and conceptual skills that come from an understanding of how scientific information is obtained and evaluated, and of how this information can be applied to societal issues. The major provides a solid foundation in genetic, cellular, physiological,

ecological, and evolutionary principles, and in the related disciplines of chemistry, physics, and mathematics. As a result, the major fosters an understanding of biological complexity including the interrelationships among humans and natural systems.

The unique characteristics of the zoology major include:

- broad-based, yet integrated training in wide-ranging areas of biology;
- solid foundation of basic principles and processes in biology;
- flexibility and advising needed to allow students to tailor the major to their specific goals;
- wide range of opportunities for undergraduate involvement in independent research and senior thesis.

## HOW TO GET IN

All students who are interested in pursuing the zoology major must schedule an appointment with the Zoology Major advisor (<https://integrativebiology.wisc.edu/undergraduate-programs/zoology-major/zoology-undergraduate-major-advising/>). No major declaration forms are required to declare zoology major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATH, CHEMISTRY & PHYSICS

Code	Title	Credits
<b>Math—complete one:</b>		<b>5-10</b>
MATH 112 & MATH 113	Algebra and Trigonometry	
MATH 114	Algebra and Trigonometry	

MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II
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**Chemistry—complete one: 5-9**

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II
CHEM 109	Advanced General Chemistry

**Physics—complete one: 8-10**

PHYSICS 103 & PHYSICS 104	General Physics and General Physics
PHYSICS 201 & PHYSICS 202	General Physics and General Physics
PHYSICS 207 & PHYSICS 208	General Physics and General Physics

**Total Credits 18-29**

## 30 CREDITS IN BIOLOGY AND ZOOLOGY COURSEWORK

### Introductory Biology

Code	Title	Credits
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**Option 1: Introductory Biology 10**

ZOOLOGY/ BIOLOGY/ BOTANY 151 & ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology and Introductory Biology	
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**Option 2: BIOCORE—complete both: 10**

BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383 & BIOCORE 384	Cellular Biology and Cellular Biology Laboratory	

**Option 3: Animal Biology<sup>1</sup> 5**

ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102	Animal Biology and Animal Biology Laboratory	
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**Total Credits 5-10**

1

BOTANY/BIOLOGY 130 is recommended, but not required for students pursuing Option 3 (Animal Biology).

### Electives

Code	Title	Credits
ZOOLOGY 299	Directed Studies in Zoology	
ZOOLOGY 300	Invertebrate Biology and Evolution	
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	
ZOOLOGY/ ENTOM 302	Introduction to Entomology	
MICROBIO 303	Biology of Microorganisms	
ZOOLOGY 303	Aquatic Invertebrate Biology	
MICROBIO 304	Biology of Microorganisms Laboratory	

ZOOLOGY 304	Marine Biology	
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	
ZOOLOGY/ ENVIR ST 315	Limnology—Conservation of Aquatic Resources	
ZOOLOGY 316	Laboratory for Limnology—Conservation of Aquatic Resources	
ANAT&PHY 335	Physiology <sup>1</sup>	
ZOOLOGY/ F&W ECOL 335	Human/Animal Relationships: Biological and Philosophical Issues	
ANAT&PHY 338	Human Anatomy Laboratory	
M M & I 341	Immunology	
ZOOLOGY/ ENTOM/M M & I/ PATH-BIO 350	Parasitology	
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	
ENVIR ST/ LAND ARC 361	Wetlands Ecology	
ZOOLOGY/ ENTOM 371	Medical Entomology	
ENVIR ST 375	Field Ecology Workshop	
ZOOLOGY 400	Topics in Biology	
ZOOLOGY 405	Introduction to Museum Studies in the Natural Sciences	
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	
ZOOLOGY 425	Behavioral Ecology	
ZOOLOGY 430	Comparative Anatomy of Vertebrates	
PSYCH 449	Animal Behavior	
ENTOM 450	Basic and Applied Insect Ecology	
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	
ZOOLOGY/ BOTANY 450	Midwestern Ecological Issues: A Case Study Approach	
PSYCH 454	Behavioral Neuroscience	
ANTHRO 458	Primate Behavioral Ecology	
ZOOLOGY/ BOTANY/ F&W ECOL 460	General Ecology	
GENETICS 466	Principles of Genetics	
ZOOLOGY 470	Introduction to Animal Development	
ZOOLOGY/ BOTANY/ ENTOM 473	Plant-Insect Interactions	
ZOOLOGY 500	Undergraduate Neurobiology Seminar	
BIOCHEM 501	Introduction to Biochemistry	
ZOOLOGY 504	Modeling Animal Landscapes	
BIOCHEM 507	General Biochemistry I	
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	

ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab
ZOOLOGY/ AN SCI/ F&W ECOL 520	Ornithology
ZOOLOGY/ AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin
ZOOLOGY/ PSYCH 523	Neurobiology
ZOOLOGY 525	Tropical Herpetology
M M & I/PATH- BIO 528	Immunology
ZOOLOGY/ GEOSCI 541	Paleobiology
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology
GENETICS 545	Genetics Laboratory
F&W ECOL/ SURG SCI 548	Diseases of Wildlife
ZOOLOGY 555	Laboratory in Developmental Biology
ZOOLOGY/ F&W ECOL/ LAND ARC 565	Principles of Landscape Ecology
ZOOLOGY 570	Cell Biology
ZOOLOGY 603	Endocrinology
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab
F&W ECOL/ ENTOM/ PL PATH/ SOIL SCI 606	Colloquium in Environmental Toxicology
ZOOLOGY 611	Comparative and Evolutionary Physiology
ZOOLOGY 612	Comparative Physiology Laboratory
ZOOLOGY/ NEURODPT/ NTP 616	Lab Course in Neurobiology and Behavior
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind
ZOOLOGY/ NTP 620	Neuroethology Seminar
ZOOLOGY/ ENTOM/ GENETICS 624	Molecular Ecology
ZOOLOGY 625	Development of the Nervous System
ZOOLOGY/ BOTANY/ ENVIR ST/ F&W ECOL 651	Conservation Biology
ZOOLOGY 655	Modeling Neurodevelopmental Disease
ZOOLOGY/ F&W ECOL 660	Climate Change Ecology

ANTHRO 668	Primate Conservation
ZOOLOGY/ BOTANY/ F&W ECOL 672	Historical Ecology
ZOOLOGY/ NEURODPT/ PSYCH 674	Behavioral Neuroendocrinology Seminar
ZOOLOGY 677	Internship in Ecology
ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis
ZOOLOGY 698	Directed Study
ZOOLOGY 699	Directed Studies in Zoology
<b>Total Credits</b>	<b>20-25</b>

A maximum of 6 credits of approved non-ZOOLOGY subject courses count toward the 30 credits required for the major. Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

1

Only 3 credits of ANAT&PHY 335 Physiology count toward the 6 credits of approved non-ZOOLOGY subject courses.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all ZOOLOGY and major courses
- 2.000 GPA on 15 Upper Level major credits, taken in Residence<sup>1</sup>
- 15 credits in ZOOLOGY, or courses that count for the major, taken on the UW-Madison campus

1

ZOOLOGY 299-699, intermediate/advanced BIOCORE, and courses that count toward the major that have an intermediate/advanced designation are considered Upper Level in the major.

## HONORS IN THE ZOOLOGY MAJOR

To earn Honors in the Major in Zoology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all courses that count toward the major
- Complete 12 credits, taken for Honors, with individual grades of B or better. Select 6 credits from ZOOLOGY 300-680 or approved non-ZOOLOGY subject courses (above).
- Complete ZOOLOGY 681 and ZOOLOGY 682, for a total of 6 credits.<sup>1</sup>

1

A written thesis proposal must be approved by the thesis mentor and a department advisor. While most theses are completed during the fall and spring of a student's senior year, other combinations of terms are possible. More information about the proposal process, timing, and grading of a thesis can be found on the Department of Integrative Biology website.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Connect and describe the concepts that make up the structure and function of all living things through the principles of genetics, cellular biology, and physiology.
2. Demonstrate an understanding of the diversity of life through the principles of evolution.
3. Make connections between organisms, their habitats, and systems through the principles of ecology.
4. Make connections between the biological sciences to humans and ecological systems and appreciate the complexity of these systems.
5. Identify, think through, and solve a problem using quantitative reasoning and critical thinking skills.
6. Develop an ability to plan and carry out scientific experiments by obtaining and evaluating scientific information and effectively communicating information through oral and written presentations.
7. Understand current issues in biology and apply scientific knowledge to societal issues.
8. Make connections between self and natural world, and personal responsibility with social issues.
9. Develop a sense of competence in the field of study through research experiences and written and oral communication of findings.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104	5
MATH 112, 114, or 171	3-5	MATH 113 or 217	3-5
Communication A <sup>1</sup>	3	L&S Breadth	3
Foreign Language (if required)	3-4	Social Science Breadth	3
<b>14</b>		<b>14</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/BOTANY 151 <sup>1</sup>	5	ZOOLOGY/BIOLOGY/BOTANY 152 (Satisfies Communication B) <sup>1</sup>	5
Ethnic Studies	3	L&S Breadth	3
INTER-LS 210	1	Social Science Breadth	3
Social Science Breadth	3	Elective	3
Elective	4		
<b>16</b>		<b>14</b>	

#### Junior

Fall	Credits	Spring	Credits
PHYSICS 103, 201, or 207	4-5	PHYSICS 104, 202, or 208	4-5
I/A COMP SCI, MATH, or STAT (if required for the BS)	3-5	I/A COMP SCI, MATH, or STAT (required for the BS)	3-5
I/A ZOOLOGY	3-6	I/A ZOOLOGY	4
Elective	3	L&S Breadth	3
<b>16</b>		<b>14</b>	

#### Senior

Fall	Credits	Spring	Credits
I/A ZOOLOGY	3-4	I/A ZOOLOGY	3-4
Elective	3-4	I/A ZOOLOGY	3-4
L&S Breadth	3	Elective	6
Elective	3-6	Social Science Breadth	3
<b>17</b>		<b>15</b>	

#### Total Credits 120

1

Students can take ZOOLOGY/BIOLOGY 101 Animal Biology and ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory for the Introductory Biology requirement is recommended for students who complete this sequence.

Student may also satisfy Introductory Biology with BIOCORE. Consult the advisor for the program regarding this option.

## ADVISING AND CAREERS

### ADVISING

Students are encouraged to consult with a department advisor to construct individual programs appropriate to their own needs. Please use Starfish or call 608-262-2742 to make an appointment with the zoology

advisor. iBio Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/78583/schedule>)

## DIRECTED STUDY

The zoology major is an excellent scaffold for students interested in an undergraduate research experience. A maximum of 10 credits of Directed Studies (ZOOLOGY 299, ZOOLOGY 698, ZOOLOGY 699), Senior Thesis (ZOOLOGY 691, ZOOLOGY 692), or Senior Honors Thesis (ZOOLOGY 681, ZOOLOGY 682) will count toward the 30 credits required for the major.

The Department of Integrative Biology offers both ZOOLOGY 299 Directed Studies in Zoology and ZOOLOGY 699 Directed Studies in Zoology. ZOOLOGY 299 is recommended for students before they have completed their introductory biology course sequence, and ZOOLOGY 699 is recommended for students who have completed their introductory biology course sequence. Directed Studies in Zoology are graded on an A to F scale. Students cannot take Directed Studies on a pass/fail basis.

Directed Studies allows students to gain experience in a wide range of research areas in biology and to learn research techniques that are not easily taught in the classroom. Such experiences allow students to make more informed decisions about their future goals and careers.

Before students can enroll in ZOOLOGY 299 or ZOOLOGY 699, they must set up an appointment with a professor/mentor of their choice, and work with the professor/mentor to:

1. Decide the specific number of credits, and
2. Plan the work required to earn those credits.

Such plans can involve reviewing relevant literature in the area, developing a proposal for independent research, and/or conducting an experiment in the mentor's study area.

Students interested in doing in-depth research as undergraduates in an area of interest can elect to do a Senior Thesis or Senior Honors Thesis (see below). Students should contact a department advisor at the beginning of their junior year to explore possible research areas.

## SENIOR THESIS

Students interested in making a longer-term commitment to a research project may consider undertaking a Senior Thesis. Students should contact a department advisor during their junior year to explore possible research areas in zoology.

Zoology Senior Thesis Requirements:

1. Approval of a department advisor, and
2. Completion of ZOOLOGY 691 and ZOOLOGY 692, a two-semester thesis research sequence, during the senior year (6 credits).

It is recommended that candidates for the Senior Thesis take ZOOLOGY 699 during second semester junior year to prepare for the thesis.

## CAREERS

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students are career ready at the time of graduation, and we are committed to your success.

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In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Faculty (<https://integrativebiology.wisc.edu/faculty/>) and Affiliate Faculty (<https://integrativebiology.wisc.edu/affiliated-faculty/>) pages on the Integrative Biology website for information about our faculty and their research areas.

## LA FOLLETTE SCHOOL OF PUBLIC AFFAIRS

### DEGREES/MAJORS/CERTIFICATES

- Health Policy, Certificate (p. 1097)
- Public Policy, Certificate (p. 1100)



# HEALTH POLICY, CERTIFICATE

The Certificate in Health Policy offered through the La Follette School of Public Affairs prepares undergraduate students to navigate and shape health policy in Wisconsin and in the United States. Coursework covers key concepts and contemporary issues relevant to work within the complex world of U.S. health policy. Courses also build familiarity with analytic methods and approaches used to foster evidence-based health policy, focusing especially on policy levers that influence health equity.

UW-Madison graduates occupy a wide range of professional roles in the health sector, such as health care providers, accountants, IT professionals, small business owners, researchers, human resources specialists, engineers, and advocates. Across these roles, a foundational understanding of health policy has emerged as a key professional competency. Recognizing that leaders in this realm must engage diverse perspectives to successfully address complex issues, required courses are designed to foster interdisciplinary discussion and analysis, and a fieldwork experience will deepen learning in a professional setting.

## HOW TO GET IN

To declare the Certificate in Health Policy through the La Follette School of Public Affairs, students must:

- Hold UW-Madison sophomore standing or above, and be in good academic standing, according to the rules of your school or college
- Have taken, are enrolled, or have registered for at least one class that meets certificate requirements

The La Follette School accepts Certificate in Health Policy applications from **May 1 - May 31** and **November 1 - November 30** each year. To apply for the Certificate:

- Review Certificate requirements so that you are familiar with the program
- Write a statement of interest that explains how you envision the Certificate in Health Policy applying to 1) context of your major program and 2) your future career
- Submit your application through the application portal, found on this page (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-health-policy/>), in May or November
- Contact one of our Academic Advisors (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-health-policy/#contact>) if you have questions

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Students must complete a minimum of four courses, one from each area listed below, and a minimum of 12 total credits.

Code	Title	Credits
<b>Introductory Course (complete one):</b>		<b>3</b>
PUB AFFR 201	Introduction to Health Policy in the United States	
<b>Analytic Tools for Health Policy (complete one):</b>		<b>3</b>
PUB AFFR 242	Foundations of Data Analysis for Health Policy	
PUB AFFR 281	Discovering What Works in Health Policy	
<b>Internship/Fieldwork Experience (complete one):</b>		<b>3</b>
PUB AFFR 327	Administrative Internship	
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	
LEGAL ST 473	Health Impacts of Unmet Social Needs	
POLI SCI 402	Wisconsin in Washington Internship Course	
<b>Policy Specialization (complete one course from any one area below):</b>		<b>3</b>
<i>Life Sciences Communication</i>		
LSC 251	Science, Media and Society	
LSC/COM ARTS/ JOURN 617	Health Communication in the Information Age	
COM ARTS 318	Introduction to Health Communication	
<i>Economics and Health</i>		
ECON/A A E/ ENVIR ST 343	Environmental Economics	
A A E 352	Global Health: Economics, Natural Systems, and Policy	
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care	
ECON 448	Human Resources and Economic Growth	
R M I/ECON 530	Insuring Life's Risks: Health, Aging, and Policy	
ACT SCI 655	Health Analytics	
R M I 660	Risk Analytics and Behavioral Science	
<i>Environment and Health</i>		
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	
LAND ARC 321	Environment and Behavior Studio - Designing Health Promoting Environments	
AGRONOMY 377	Global Food Production and Health	
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	
<i>Social Policy, Human Services, Demography and Health</i>		
AFROAMER/ HIST SCI 275	Science, Medicine, and Race: A History	
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	

MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ HIST SCI/ HISTORY 508	Health, Disease and Healing II
MED HIST/ HIST SCI/ HISTORY 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean
ANTHRO 265	Introduction to Culture and Health
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health
GEN&WS 538	Special Topics in LGBTQ+ Health
CHICLA/ COUN PSY 331	Immigrant Health and Wellbeing
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives
PSYCH 525	Cognition in Health and Society
COUN PSY 531	Prevention and Intervention in Mental Health Across the Lifespan
SOC WORK 206	Introduction to Social Policy
SOC WORK 420	Poverty and Social Welfare
SOC/ C&E SOC 343	Sociology of Health and Medicine
PSYCH 401	Psychology, Law, and Social Policy
SOC WORK/ SOC 422	Social Issues in Aging
HDFS/ CNSR SCI 465	Families & Poverty
PHILOS/ MED HIST 505	Justice and Health Care
PUB AFFR 520	Inequality, Race and Public Policy
PUB AFFR 523	Policy, Privacy, and Personal Identity in the Postgenomics Era
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health
COUN PSY/ CHICLA 525	Dimensions of Latin@ Mental Health Services
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives
SOC 575	Sociological Perspectives on the Life Course and Aging
SOC/AMER IND/ C&E SOC 578	Poverty and Place
SOC/ECON 663	Population and Society
<i>Medical Care Systems</i>	
SOC/ C&E SOC 532	Health Care Issues for Individuals, Families and Society
I SY E 417	Health Systems Engineering
MED HIST/ PHILOS 558	Ethical Issues in Health Care
DS 341	Design Thinking for Transformation

*Public Health*

HIST SCI/ MED HIST 509	The Development of Public Health in America
NUTR SCI 540	Community Nutrition and Health Equity
SOC/ C&E SOC 533	Public Health in Rural & Urban Communities
C&E SOC/ SOC 532	Health Care Issues for Individuals, Families and Society
MED HIST/ PHILOS 515	Public Health Ethics

**Total Credits****12**

## RESIDENCE AND QUALITY OF WORK

- At least 6 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Students will demonstrate understanding of major underpinnings and challenges of contemporary U.S. health policy, and how to approach issues using a public policy lens.
2. Students will gain knowledge and demonstrate application of analytical and methodological tools used in the health sector (e.g., policy writing, analysis, familiarity with data used in health policy and clinical research, and quantitative and qualitative methods used in social policy).
3. Students will demonstrate understanding and application of knowledge regarding a substantive health policy interest of their choice, such as health care policy and innovation, social determinants of health, reproductive health policy, social policy, analysis of health behaviors, and others.
4. Students will gain applied experience in a setting relevant for navigating, interpreting, and contributing to effective health policy throughout their careers.

## ADVISING AND CAREERS

The La Follette School of Public Affairs welcomes you to reach out to our student services team. Here are some quick steps toward getting what you need. Before getting in touch, be sure to check our web site (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-health-policy/>). It is updated regularly and just may hold the answers you seek!

- If you're interested in **learning more about the Certificate or would like guidance as a current Certificate student**, contact Kelly Otto at [klotto@wisc.edu](mailto:klotto@wisc.edu)
- If you're unable to get in touch with Kelly, contact Mary Michaud at [mdmichaud@wisc.edu](mailto:mdmichaud@wisc.edu)

- If you're already a Certificate student, you can connect with Marie Koko, our Career Services Coordinator, about **careers and internships**: Send her an email at: [marie.koko@wisc.edu](mailto:marie.koko@wisc.edu)
- If you have a **technical question** about your DARS report, enrollment, or other things administrative, connect with David Wright-Racette at [wrightracette@lafollette.wisc.edu](mailto:wrightracette@lafollette.wisc.edu)
- If you're interested in learning more about La Follette's **graduate programs in public and international affairs**, or joint graduate degree programs (<https://lafollette.wisc.edu/academics/>) (e.g., MPH/MPA, JD/MPA, PhD/MPA in neuroscience), contact Mo O'Connor, our graduate advisor: [mcoconnor@lafollette.wisc.edu](mailto:mcoconnor@lafollette.wisc.edu)
- If you're an alumnus, parent, or student who is curious about **how to get involved or contribute to the mission of the La Follette School**, please contact Associate Director Steve Kulig: [skulig@lafollette.wisc.edu](mailto:skulig@lafollette.wisc.edu)

## People

Please take a few minutes to review La Follette School's list of faculty in Public Affairs (<https://lafollette.wisc.edu/about/faculty-and-staff/>) and our research and work in health policy (<https://lafollette.wisc.edu/research/health-and-aging/>).

## Staff contact information

Kelly Otto, Academic Advisor, La Follette School of Public Affairs  
[klotto@wisc.edu](mailto:klotto@wisc.edu)  
 608-265-6025  
 2414 Sterling Hall

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 608-262-7390  
 2408 Sterling Hall

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[marie.koko@wisc.edu](mailto:marie.koko@wisc.edu) (<http://guide.wisc.edu/undergraduate/letters-science/lafollette-school-public-affairs/public-affairs-certificate/marie.koko@wisc.edu>)  
 608-262-3908  
 2406 Sterling Hall

David Wright-Racette, Senior Student Status Examiner, La Follette School of Public Affairs  
[wrightracette@lafollette.wisc.edu](mailto:wrightracette@lafollette.wisc.edu)  
 608-262-9163  
 110A Observatory Hill Office Building

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 608-262-8631  
 103 Observatory Hill Office Building

## Careers

Health policy issues affect every resident and community in the United States. Because of its complexity, people working in the health sector

benefit from understanding specific terminology, issues, and systems involved in policymaking. Through the Certificate in Health Policy, students will build the knowledge base for this work while also gaining skills in quantitative analysis, communication, writing, critical thinking, and problem solving. More and more, employers across the health sector value this combination of skills and insights.

Students interested in health care, advocacy, business, or research will earn a credential highlighting highly sought-after skills that, through the fieldwork component of the certificate, they have applied in the context of real-world practice. Focused on evidence-based health policy and practice, courses help students hone skills to gather data and information from a variety of sources, analyze and synthesize the findings, and communicate key insights using clear, concise communication strategies.

Career development is an integral part of the La Follette School experience, with staff members and alumni eager to support and mentor students with diverse interests. Students benefit from networking opportunities, employer visits, professional development seminars, and other services.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## WISCONSIN EXPERIENCE

**Empathy and humility.** The effects of health policy reach into every corner of life, including access to health care and the rising costs of health benefits. To address complex issues, students in health policy learn to

value and engage diverse perspectives and question their own biases and assumptions.

**Relentless curiosity.** Like peeling an onion, the study of health policy invites learners to uncover layers of data and history to explore root causes of poor health outcomes. Why does a person's zip code predict so much about their health outcomes? Why is U.S. health insurance largely tied to a person's employment status? What drives the high cost of health care, and what are options for reform? For those with an insatiable curiosity, health policy offers endless discoveries and an ever-changing landscape.

**Intellectual confidence.** In many cases, great leadership emerges when leaders themselves have the confidence to say "I don't know." Public policy studies include deep analysis of the stakeholders in systems, the relationships among those actors, and the incentives that drive behavior. Because of this, students learn to define problems in new ways, ask better questions, and use data to drive insight.

**Purposeful action.** Health policy has broad implications for the distribution of resources across the public and private sectors. As we learn more about addressing the "upstream" factors that influence health, students gain insights about how to build more prevention-oriented health policy.

## PUBLIC POLICY, CERTIFICATE

UW-Madison's Undergraduate Certificate in Public Policy complements existing majors across campus and extends the La Follette School of Public Affairs' mission to training and mentoring the next generation of leaders in their careers and communities.

The certificate program allows undergraduate students to apply a policy perspective to their major course of study and bolsters their skills for success in the workforce or in their graduate school coursework. Students build a strong foundation for careers in government, nonprofit organizations, or the private sector.

The Undergraduate Certificate in Public Policy is ideal for students seeking careers related to key domestic and international issues such as criminal justice, education, energy, environmental studies, finance, transportation, and poverty. It also prepares students to be engaged citizens, ready to use their talents to improve the world around them.

## HOW TO GET IN

To declare the Undergraduate Certificate in Public Policy, students must:

- Hold UW-Madison sophomore standing or above
- Meet their school or college criteria for good academic standing
- Have taken, are enrolled, or have registered for at least one class that meets certificate requirements

The La Follette School accepts Certificate applications **from May 1 - May 31** and **November 1 - November 30** each year. To apply for the Certificate:

- Review Certificate requirements so that you are familiar with the program

- Write a statement of interest that explains how you envision the Certificate in Public Policy applying to 1) context of your major program and 2) your future career
- Submit your application through the application portal, found on this page (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-public-policy/>), in May or November
- Contact one of our Academic Advisors (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-public-policy/#contact>) if you have questions

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Code	Title	Credits
<b>Introductory Course: 1 course required</b>		<b>3</b>
PUB AFFR 200	Contemporary Public Policy Issues	
<b>Analytical Tools for Policy Design, Implementation, and Evaluation: 1 course required</b>		<b>3</b>
PUB AFFR 240	Evidence-Based Policy Making	
PUB AFFR 380	Analytic Tools for Public Policy	
<b>Policy Specialization: 1 course from any of these areas</b>		<b>3</b>
<i>Social Policy, Inequality &amp; Poverty</i>		
PUB AFFR 520	Inequality, Race and Public Policy	
A A E/ INTL ST 373	Globalization, Poverty and Development	
ECON 370	Economics of Poverty and Inequality	
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	
ECON 455	Behavioral Economics	
POLI SCI 272	Introduction to Public Policy	
PSYCH 401	Psychology, Law, and Social Policy	
SOC WORK 206	Introduction to Social Policy	
SOC WORK 420	Poverty and Social Welfare	
<i>Public Management</i>		
PUB AFFR 278	Public Leadership	
PUB AFFR 285	Strategic Public Management	
PUB AFFR/ POLI SCI 419	Administrative Law	
L I S 661	Information Ethics and Policy	
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	
POLI SCI 405	State Government and Public Policy	
<i>Health Policy</i>		
PUB AFFR 523	Policy, Privacy, and Personal Identity in the Postgenomics Era	
A A E 352	Global Health: Economics, Natural Systems, and Policy	
NURSING 444	Health Systems, Policy, Economics, and Research	

ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care
R MI/ECON 530	Insuring Life's Risks: Health, Aging, and Policy
SOC/ C&E SOC 533	Public Health in Rural & Urban Communities
<i>Environmental Policy</i>	
PUB AFFR 366	U.S. Environmental Politics and Public Policy
A A E 246	Climate Change Economics and Policy
A A E/ECON 371	Energy, Resources and Economics
A A E/ECON/ F&W ECOL 531	Natural Resource Economics
AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability
CBE 512	Energy Technologies and Sustainability
CIV ENGR/ G L E 421	Environmental Sustainability Engineering
ENVIR ST/ ENGL 305	Rhetoric, Science, and Public Engagement
ENVIR ST 349	Climate Change Governance
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources
ENVIR ST/ F&W ECOL 515	Natural Resources Policy
<i>Education Policy</i>	
ED POL 145	Introduction to Education Policy
ED POL 200	Race, Ethnicity, and Inequality in American Education
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education
ED POL 320	Climate Change, Sustainability, and Education
ED POL 510	Urban School Policy
ED POL 518	Introduction to Debates in Higher Education Policy
ED POL/ ELPA 542	Law and Public Education
ED POL 300	School and Society
ED POL/ GEN&WS 560	Gender and Education
ED POL 575	Education Policy and Practice
<i>Family Policy</i>	
CNSR SCI 575	Family Economics and Public Policy
CNSR SCI 579	Consumer Policy Analysis
HDFS 535	A Family Perspective in Policymaking
<i>International Policy</i>	

PUB AFFR 270	The Private and Public Sectors in Policymaking
A A E 319	The International Agricultural Economy
ECON 435	The Financial System
ECON/A A E 474	Economic Problems of Developing Areas
ECON 661	Issues in International Macroeconomics
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East
HISTORY 434	American Foreign Relations, 1901 to the Present
INTL BUS/ FRENCH 314	Contemporary Issues in Government, Organizations, and Enterprise
POLI SCI 324	Chinese Politics
POLI SCI 340	The European Union: Politics and Political Economy
POLI SCI 343	Theories of International Security
POLI SCI 359	American Foreign Policy
<b>Fieldwork and Internship: 1 course required</b>	
PUB AFFR 327	Administrative Internship
POLI SCI 315	Legislative Internship
INTL ST 322	Washington DC Semester in International Affairs Internship Seminar
POLI SCI 402	Wisconsin in Washington Internship Course

**Total Credits** **12**

## RESIDENCE & QUALITY OF WORK

- At least 6 credits must be completed in residence
- Minimum 2.000 GPA on all certificate courses

1

Courses taken Pass/Fail do not meet certificate requirements or calculate in the GPA.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Students will demonstrate understanding of major current and past public policy debates, and how to approach questions and research with a public policy lens.
2. Students will gain knowledge and demonstrate application of methodological tools utilized in the public policy arena (e.g., policy memo writing, policy analysis, experience working with administrative data, program evaluation, cost-benefit analysis, performance management).

- Students will demonstrate understanding and application of knowledge regarding the substantive policy area of interest of their choice (e.g., education, health, social, environmental, science).
- Students will gain practical professional experience in a public policy work setting.

## ADVISING AND CAREERS

The La Follette School of Public Affairs welcomes you to reach out to our student services team. Here are some quick steps toward getting what you need. Before getting in touch, be sure to visit our Certificate in Public Policy webpage (<https://lafollette.wisc.edu/academics/undergraduate-certificate-in-public-policy/>) as many questions you may have may be answered there. It is updated regularly and just may hold the answers you seek!

- If you're interested in learning more about the Certificate or would like guidance as a current Certificate student, contact Kelly Otto at [klotto@wisc.edu](mailto:klotto@wisc.edu)
- If you're unable to get in touch with Kelly, contact Mary Michaud at [mdmichaud@wisc.edu](mailto:mdmichaud@wisc.edu)
- If you're already a Certificate student, you can connect with Marie Koko, our Career Services Coordinator, about careers and internships: Send her an email at: [marie.koko@wisc.edu](mailto:marie.koko@wisc.edu)
- If you have a technical question about your DARS report, enrollment, or other things administrative, connect with David Wright-Racette at [wrightracette@lafollette.wisc.edu](mailto:wrightracette@lafollette.wisc.edu)
- If you're interested in learning more about La Follette's graduate programs in public and international affairs, contact Mo O'Connor, our graduate advisor: [mcoconnor@lafollette.wisc.edu](mailto:mcoconnor@lafollette.wisc.edu)
- If you're an alumnus, parent, or student who is curious about how to get involved or contribute to the mission of the La Follette School, please contact Associate Director Steve Kulig: [skulig@lafollette.wisc.edu](mailto:skulig@lafollette.wisc.edu)

### STAFF CONTACT INFORMATION:

Kelly Otto, Academic Advisor, La Follette School of Public Affairs  
[klotto@wisc.edu](mailto:klotto@wisc.edu)  
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 2414 Sterling Hall

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Marie Koko, Senior Career Services Coordinator, La Follette School of Public Affairs  
[marie.koko@wisc.edu](mailto:marie.koko@wisc.edu) (<http://guide.wisc.edu/undergraduate/letters-science/lafollette-school-public-affairs/public-affairs-certificate/>)  
[marie.koko@wisc.edu](mailto:marie.koko@wisc.edu)  
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### SKILLS & CAREERS

Given the increasing complexity in every realm of public policy, students in the public policy certificate program gain skills in quantitative analysis, communication, writing, critical thinking, and problem solving that are in demand by more and more employers in almost every sector.

The certificate program focuses on evidence-based practices and provides students with the skills to gather data and information from various sources, analyze and synthesize the findings, and write a clear and concise report to illustrate the main points.

With the focus on evidence-based practices, the public policy certificate program provides research and data analysis skills that are transferrable to nearly any occupation. Students maximize their electives and earn a credential that highlights these highly sought-after skills in the context of real-world practice.

Career development is an integral part of the La Follette School experience, with staff members and alumni eager to support and mentor students with diverse interests. Students benefit from networking opportunities, employer visits, professional development seminars, and other services.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

The undergraduate certificate in public policy gives students access to the La Follette School's award-winning faculty members (<https://lafollette.wisc.edu/faculty-staff/>). These interdisciplinary faculty have expertise in social policy, health policy and management, public management, policy analysis, environmental policy, poverty, and government finance.

## LANGUAGE SCIENCES

Language Sciences at UW-Madison is an interdisciplinary hub for research and collaboration that houses the Linguistics major.

Linguistics is the scientific study of human language. It investigates the common principles underlying all languages, as well as the organization of particular languages. It is expected that undergraduates with a major in linguistics will be able to:

- demonstrate a sound knowledge of the fields of phonetics (articulatory and acoustic properties of speech), phonology (the organization of the sound system of languages), morphology (the structure of words), syntax (the structure of sentences), and semantics (the interpretation of structures);
- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

Our undergraduate major emphasizes strong foundational training in the core areas of theoretical linguistics. Students also have access to breadth courses in a wide variety of interdisciplinary areas, including first and second language acquisition, language disorders, psycholinguistics, sociolinguistics, historical linguistics, neurolinguistics, philosophy of language, and language endangerment and revitalization. Coursework is also available in the linguistics of specific languages or language families, such as Germanic, Spanish and Romance, Chinese, Japanese, and Native American linguistics.

## DEGREES/MAJORS/CERTIFICATES

- Linguistics, B.A. (p. 1103)
- Linguistics, B.S. (p. 1107)

## PEOPLE

Please visit the Language Sciences website (<https://langsci.wisc.edu/faculty-academic-staff/>) for a complete list of our faculty and their areas of interest and expertise.

## LINGUISTICS, B.A.

Language Sciences at UW-Madison is an interdisciplinary hub for research and collaboration that houses the Linguistics major.

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- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

Our undergraduate major emphasizes strong foundational training in the core areas of theoretical linguistics. Students also have access to breadth courses in a wide variety of interdisciplinary areas, including first and second language acquisition, language disorders, psycholinguistics, sociolinguistics, historical linguistics, neurolinguistics, philosophy of language, and language endangerment and revitalization. Coursework is also available in the linguistics of specific languages or language families, such as Germanic, Spanish and Romance, Chinese, Japanese, and Native American linguistics.

## HOW TO GET IN

Undergraduate students wishing to major in Linguistics should make an appointment with the Linguistics Undergraduate Advisor. Current advisor contact information can be found on the Language Sciences Advising Page (<https://langsci.wisc.edu/advising/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR LANGUAGE

Code	Title	Credits
	Complete the fourth unit or higher in a foreign language, by course or by examination	0-16
<b>Total Credits</b>		<b>0-16</b>

## LINGUISTICS

Students pursuing the linguistics major must complete 30 credits as follows:

Code	Title	Credits
<b>Required foundational courses:</b>		
LINGUIS 101	Human Language	3
LINGUIS 310	Phonology	3
LINGUIS 330	Syntax	3
LINGUIS 322	Morphology	3
<b>500-Level LINGUIS (Complete 1 of the following:)</b>		<b>3</b>
LINGUIS 510	Phonological Theories	
LINGUIS 522	Advanced Morphology	
LINGUIS 530	Syntactic Theories	
LINGUIS 571	Structure of a Language	
<b>Capstone course</b>		<b>3</b>
LINGUIS 690	Capstone in Linguistics	
<b>Electives (Complete 4 of the following:)</b>		<b>12</b>
any LINGUIS course <sup>1</sup>		
AFRICAN 500	Language and Society in Africa	
AMER IND/ ANTHRO 314	Indians of North America	
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	
ANTHRO/ LINGUIS 430	Language and Culture	
ASIAN 358	Language in Japanese Society	
ASIAN 432	Introduction to Chinese Linguistics	
ASIAN 434	Introduction to Japanese Linguistics	
ASIAN 631	History of the Chinese Language	
ASIAN 632	Studies in Chinese Linguistics	
CS&D 110	Introduction to Communicative Disorders	
CS&D 201	Anatomy and Physiology of Speech Production	
CS&D 202	Normal Aspects of Hearing	
CS&D 210	Neural Basis of Communication	
CS&D 240	Language Development in Children and Adolescents	
CS&D 303	Speech Acoustics and Perception	



CS&D 315	Phonetics and Phonological Development
CS&D 440	Child Language Disorders, Assessment and Intervention
CS&D 503	Neural Mechanisms of Speech, Hearing and Language
COMP SCI 545	Natural Language and Computing
ENGL 314	Structure of English
ENGL 316	English Language Variation in the U.S.
ENGL 318	Second Language Acquisition
ENGL 319	Language, Race, and Identity
ENGL 320	Linguistic Theory and Child Language
ENGL 413	English Words: Grammar, Culture, Mind
ENGL 414	Global Spread of English
ENGL 415	Introduction to TESOL Methods
ENGL 416	English in Society
ENGL 417	History of the English Language
ENGL 420	Topics in English Language and Linguistics
ENGL 514	English Syntax
ENGL 516	English Grammar in Use
FOLKLORE/ L I S 490	Field Methods and the Public Presentation of Folklore
FOLKLORE/ COM ARTS 522	Digital Storytelling for Social Media
ITALIAN 340	Structures of Italian
GERMAN 351	Introduction to German Linguistics
GERMAN 352	Topics in German Linguistics
GERMAN 650	History of the German Language
L I S 501	Introduction to Text Mining
L I S 640	Topics in Library and Information Studies (Tribal Libraries, Archives, & Museums topic only)
LINGUIS/ ANTHRO/ FOLKLORE/ INTL ST 211	Global Language Issues
LINGUIS 237	Language in Wisconsin
LINGUIS 303	Historical Linguistics
LINGUIS 306	General Phonetics
LINGUIS 309	Grammatical Variability of Language
LINGUIS 340	Semantics
LINGUIS/ AMER IND 371	Survey of North American Indian Languages
LINGUIS 373	Topics in Linguistics
LINGUIS 426	Field Methods I
LINGUIS 427	Field Methods II
LINGUIS/ ANTHRO 430	Language and Culture
LINGUIS 610	Topics in Phonological Theory
PHILOS 516	Language and Meaning
PSYCH 406	Psychology of Perception

PSYCH 413	Language, Mind, and Brain
PSYCH 414	Cognitive Psychology
PSYCH 460	Child Development
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture
SOC 535	Talk and Social Interaction
SPANISH 320	Spanish Phonetics
SPANISH 321	The Structure of Modern Spanish
SPANISH 327	Introduction to Spanish Linguistics
SPANISH 331	Spanish Applied Linguistics
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages
SPANISH 430	Spanish in the United States
SPANISH 446	Topics in Spanish Linguistics
SPANISH 630	Topics in Hispanic Linguistics

**Total Credits****30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LINGUIS and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in LINGUIS, taken on the UW-Madison campus

### Electives from Other Subjects that are Upper-level in the Major

Code	Title	Credits
AFRICAN 500	Language and Society in Africa	3-4
ASIAN 358	Language in Japanese Society	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN 631	History of the Chinese Language	3
CS&D 201	Anatomy and Physiology of Speech Production	3
CS&D 210	Neural Basis of Communication	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
COMP SCI 545	Natural Language and Computing	3
ENGL 314	Structure of English	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 414	Global Spread of English	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL 516	English Grammar in Use	3
ENGL 514	English Syntax	3
GERMAN 351	Introduction to German Linguistics	3-4
GERMAN 352	Topics in German Linguistics	3-4

GERMAN 650	History of the German Language	3
PHILOS 516	Language and Meaning	3
SOC 535	Talk and Social Interaction	3
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3
SPANISH 630	Topics in Hispanic Linguistics	3

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Linguistics Undergraduate Advisor (<http://guide.wisc.edu/undergraduate/letters-science/linguistics/linguistics-ba/#advisingandcareerstext>).

### HONORS IN THE LINGUISTICS MAJOR: REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all LINGUIS courses, and all courses accepted in the major
- Complete two LINGUIS courses, taken for Honors, with concurrent 1-credit enrollment in LINGUIS 481 Junior Honors Tutorial, LINGUIS 482 Junior Honors Tutorial, or LINGUIS 583 Senior Honors Tutorial, for a total of 2 additional credits. A grade of B or better must be earned in each course taken for honors.
- Complete a two-semester Senior Honors Thesis in LINGUIS 681 Honors Seminar-Senior Thesis and LINGUIS 682 Honors Seminar-Senior Thesis, leading to submission of an acceptable paper, for a total of 6 credits. A grade of B or better must be earned in the thesis project.

Note that Honors tutorial credits and the Senior Honors Thesis do not count toward the 30 credits required for the major in linguistics.

## FOOTNOTES

1

Except LINGUIS 481, LINGUIS 482, LINGUIS 583, LINGUIS 681, LINGUIS 682.

2

Intermediate and Advanced level LINGUIS courses, LINGUIS 340, LINGUIS 373 and some elective courses from other subjects are upper-level in the major (see list).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Familiarity with data from a wide range of languages from different language families.
2. Ability to respond to biased views of language in their communities.
3. Knowledge in all core areas of linguistics: Phonetics, phonology, morphology, syntax, and semantics.
4. Sound grasp of linguistic concepts.
5. Sound grasp of linguistic methodology.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Communication A	3	Ethnic Studies	3
Quantitative Reasoning A	3	4th semester of Foreign Language (if needed) <small>Linguistics majors are required to complete the 4th unit or higher of a foreign language, whether they are doing the BA or the BS degree.</small>	3
3rd semester of Foreign Language (if needed)	3	LINGUIS 101	3

Linguistics majors will have varying needs for L&S Breadth courses outside the major, depending on which Linguistics major electives they choose. Many Linguistics major electives are Humanities courses, but some are Social Science or Natural Sciences. Consult with your advisor to determine your individual needs.

L&S Breadth	3 L&S Breadth	3
		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Communication B	3
LINGUIS 310	3	LINGUIS 322	3
LINGUIS 330	3	Linguistics major elective #1	3
L&S Breadth	3	I/A Math, Comp Sci, or Stat (if needed for B.S.)	3
Elective	3	L&S Breadth	3
		<b>15</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
Linguistics 500-level course (take any time in years 3-4)	3	Linguistics major elective #3	3
Linguistics major elective #2	3	L&S Breadth	3
L&S Breadth	3	Electives	9
Electives	6		
		<b>15</b>	<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
Linguistics major elective #4	3	LINGUIS 690	3
Electives	12	Electives	12
		<b>15</b>	<b>15</b>

**Total Credits 120**

**ADVISING AND CAREERS**

**UNDERGRADUATE ADVISING**

Rebecca Shields, Undergraduate Advisor

1166 Van Hise Hall  
rashields@wisc.edu

Contact the undergraduate advisor (<https://langsci.wisc.edu/advising/>) via email or using the Starfish app to set up an appointment. The advisor is happy to meet with students who want to learn more about the major, careers in linguistics, linguistics course selection, and opportunities for

participation in research in language sciences. A meeting with the advisor is required to declare the major.

**LETTERS & SCIENCE CAREER SERVICES**

Language Sciences encourages our majors to begin working on their career exploration and preparation soon after declaring their major. Our career advisor also partners with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Please visit the Language Sciences website (<https://langsci.wisc.edu/faculty-academic-staff/>) for a complete list of our faculty and their areas of interest and expertise.

**LINGUISTICS, B.S.**

Language Sciences at UW-Madison is an interdisciplinary hub for research and collaboration that houses the Linguistics major.

Linguistics is the scientific study of human language. It investigates the common principles underlying all languages, as well as the organization of particular languages. It is expected that undergraduates with a major in linguistics will be able to:

- demonstrate a sound knowledge of the fields of phonetics (articulatory and acoustic properties of speech), phonology (the organization of the sound system of languages), morphology (the structure of words), syntax (the structure of sentences), and semantics (the interpretation of structures);
- demonstrate that they are able to analyze data in all these areas of linguistics;
- apply their linguistic training without prejudice, as expected in any science; and
- apply their analytical abilities beyond the study of linguistics.

Our undergraduate major emphasizes strong foundational training in the core areas of theoretical linguistics. Students also have access to breadth courses in a wide variety of interdisciplinary areas, including first and second language acquisition, language disorders, psycholinguistics, sociolinguistics, historical linguistics, neurolinguistics, philosophy of language, and language endangerment and revitalization. Coursework is also available in the linguistics of specific languages or language families, such as Germanic, Spanish and Romance, Chinese, Japanese, and Native American linguistics.

## HOW TO GET IN

Undergraduate students wishing to major in Linguistics should make an appointment with the Linguistics Undergraduate Advisor. Current advisor contact information can be found on the Language Sciences Advising Page (<https://langsci.wisc.edu/advising/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR LANGUAGE

Code	Title	Credits
Complete the fourth unit or higher in a foreign language, by course or by examination		0-16
<b>Total Credits</b>		<b>0-16</b>

## LINGUISTICS

Students pursuing the linguistics major must complete 30 credits as follows:

Code	Title	Credits
<b>Required foundational courses:</b>		
LINGUIS 101	Human Language	3
LINGUIS 310	Phonology	3
LINGUIS 330	Syntax	3
LINGUIS 322	Morphology	3
<b>500-Level LINGUIS (Complete 1 of the following:)</b>		<b>3</b>
LINGUIS 510	Phonological Theories	
LINGUIS 522	Advanced Morphology	
LINGUIS 530	Syntactic Theories	
LINGUIS 571	Structure of a Language	
<b>Capstone course</b>		<b>3</b>
LINGUIS 690	Capstone in Linguistics	
<b>Electives (Complete 4 of the following:)</b>		<b>12</b>
any LINGUIS course <sup>1</sup>		
AFRICAN 500	Language and Society in Africa	
AMER IND/ ANTHRO 314	Indians of North America	
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	
ANTHRO/ LINGUIS 430	Language and Culture	
ASIAN 358	Language in Japanese Society	
ASIAN 432	Introduction to Chinese Linguistics	
ASIAN 434	Introduction to Japanese Linguistics	
ASIAN 631	History of the Chinese Language	
ASIAN 632	Studies in Chinese Linguistics	
CS&D 110	Introduction to Communicative Disorders	
CS&D 201	Anatomy and Physiology of Speech Production	
CS&D 202	Normal Aspects of Hearing	
CS&D 210	Neural Basis of Communication	
CS&D 240	Language Development in Children and Adolescents	
CS&D 303	Speech Acoustics and Perception	
CS&D 315	Phonetics and Phonological Development	
CS&D 440	Child Language Disorders, Assessment and Intervention	

CS&D 503	Neural Mechanisms of Speech, Hearing and Language
COMP SCI 545	Natural Language and Computing
ENGL 314	Structure of English
ENGL 316	English Language Variation in the U.S.
ENGL 318	Second Language Acquisition
ENGL 319	Language, Race, and Identity
ENGL 320	Linguistic Theory and Child Language
ENGL 413	English Words: Grammar, Culture, Mind
ENGL 414	Global Spread of English
ENGL 415	Introduction to TESOL Methods
ENGL 416	English in Society
ENGL 417	History of the English Language
ENGL 420	Topics in English Language and Linguistics
ENGL 514	English Syntax
ENGL 516	English Grammar in Use
FOLKLORE/ L I S 490	Field Methods and the Public Presentation of Folklore
FOLKLORE/ COM ARTS 522	Digital Storytelling for Social Media
ITALIAN 340	Structures of Italian
GERMAN 351	Introduction to German Linguistics
GERMAN 352	Topics in German Linguistics
GERMAN 650	History of the German Language
L I S 501	Introduction to Text Mining
L I S 640	Topics in Library and Information Studies (Tribal Libraries, Archives, & Museums topic only)
LINGUIS/ ANTHRO/ FOLKLORE/ INTL ST 211	Global Language Issues
LINGUIS 237	Language in Wisconsin
LINGUIS 303	Historical Linguistics
LINGUIS 306	General Phonetics
LINGUIS 309	Grammatical Variability of Language
LINGUIS 340	Semantics
LINGUIS/ AMER IND 371	Survey of North American Indian Languages
LINGUIS 373	Topics in Linguistics
LINGUIS 426	Field Methods I
LINGUIS 427	Field Methods II
LINGUIS/ ANTHRO 430	Language and Culture
LINGUIS 610	Topics in Phonological Theory
PHILOS 516	Language and Meaning
PSYCH 406	Psychology of Perception
PSYCH 413	Language, Mind, and Brain
PSYCH 414	Cognitive Psychology
PSYCH 460	Child Development

PSYCH 520	How We Read: The Science of Reading and Its Educational Implications
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture
SOC 535	Talk and Social Interaction
SPANISH 320	Spanish Phonetics
SPANISH 321	The Structure of Modern Spanish
SPANISH 327	Introduction to Spanish Linguistics
SPANISH 331	Spanish Applied Linguistics
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages
SPANISH 430	Spanish in the United States
SPANISH 446	Topics in Spanish Linguistics
SPANISH 630	Topics in Hispanic Linguistics

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LINGUIS and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>2</sup>
- 15 credits in LINGUIS, taken on the UW-Madison campus

### Electives from Other Subjects that are Upper-level in the Major

Code	Title	Credits
AFRICAN 500	Language and Society in Africa	3-4
ASIAN 358	Language in Japanese Society	3
ASIAN 432	Introduction to Chinese Linguistics	3
ASIAN 434	Introduction to Japanese Linguistics	3
ASIAN 631	History of the Chinese Language	3
CS&D 201	Anatomy and Physiology of Speech Production	3
CS&D 210	Neural Basis of Communication	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
COMP SCI 545	Natural Language and Computing	3
ENGL 314	Structure of English	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 318	Second Language Acquisition	3
ENGL 414	Global Spread of English	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
ENGL 516	English Grammar in Use	3
ENGL 514	English Syntax	3
GERMAN 351	Introduction to German Linguistics	3-4
GERMAN 352	Topics in German Linguistics	3-4
GERMAN 650	History of the German Language	3
PHILOS 516	Language and Meaning	3
SOC 535	Talk and Social Interaction	3

SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3
SPANISH 630	Topics in Hispanic Linguistics	3

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Linguistics Undergraduate Advisor (<http://guide.wisc.edu/undergraduate/letters-science/linguistics/linguistics-ba/#advisingandcareerstext>).

### HONORS IN THE LINGUISTICS MAJOR: REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all LINGUIS courses, and all courses accepted in the major
- Complete two LINGUIS courses, taken for Honors, with concurrent 1-credit enrollment in LINGUIS 481 Junior Honors Tutorial, LINGUIS 482 Junior Honors Tutorial, or LINGUIS 583 Senior Honors Tutorial, for a total of 2 additional credits. A grade of B or better must be earned in each course taken for honors.
- Complete a two-semester Senior Honors Thesis in LINGUIS 681 Honors Seminar-Senior Thesis and LINGUIS 682 Honors Seminar-Senior Thesis, leading to submission of an acceptable paper, for a total of 6 credits. A grade of B or better must be earned in the thesis project.

Note that Honors tutorial credits and the Senior Honors Thesis do not count toward the 30 credits required for the major in linguistics.

## FOOTNOTES

1

Except LINGUIS 481, LINGUIS 482, LINGUIS 583, LINGUIS 681, LINGUIS 682.

2

Intermediate and Advanced level LINGUIS courses, LINGUIS 340, LINGUIS 373 and some elective courses from other subjects are upper-level in the major (see list).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Familiarity with data from a wide range of languages from different language families.
2. Ability to respond to biased views of language in their communities.
3. Knowledge in all core areas of linguistics: Phonetics, phonology, morphology, syntax, and semantics.
4. Sound grasp of linguistic concepts.
5. Sound grasp of linguistic methodology.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
Communication A	3	Ethnic Studies	3
Quantitative Reasoning A	3	4th semester of Foreign Language (if needed) <small>Linguistics majors are required to complete the 4th unit or higher of a foreign language, whether they are doing the BA or the BS degree.</small>	3
3rd semester of Foreign Language (if needed)	3	LINGUIS 101	3
L&S Breadth <small>Linguistics majors will have varying needs for L&amp;S Breadth courses outside the major, depending on which Linguistics major electives they choose. Many Linguistics major electives are Humanities courses, but some are Social Science or Natural Sciences. Consult with your advisor to determine your individual needs.</small>	3	I/A Math, Comp Sci, or Stat (if needed for BS)	3
L&S Breadth	3	L&S Breadth	3
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Communication B	3
LINGUIS 310	3	LINGUIS 322	3
LINGUIS 330	3	Linguistics major elective #1	3
L&S Breadth	3	I/A Math, Comp Sci, or Stat (if needed for B.S.)	3
Elective	3	L&S Breadth	3
	<b>15</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Linguistics 500-level course (take any time in years 3-4)	3	Linguistics major elective #3	3
Linguistics major elective #2	3	L&S Breadth	3
L&S Breadth	3	Electives	9
Electives	6		
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Linguistics major elective #4	3	LINGUIS 690	3
Electives	12	Electives	12
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING

Rebecca Shields, Undergraduate Advisor

1166 Van Hise Hall  
rashields@wisc.edu

Contact the undergraduate advisor (<https://langsci.wisc.edu/advising/>) via email or using the Starfish app to set up an appointment. The advisor is happy to meet with students who want to learn more about the major, careers in linguistics, linguistics course selection, and opportunities for participation in research in language sciences. A meeting with the advisor is required to declare the major.

### LETTERS & SCIENCE CAREER SERVICES

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## L&S CAREER RESOURCES

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Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Language Sciences website (<https://langsci.wisc.edu/faculty-academic-staff/>) for a complete list of our faculty and their areas of interest and expertise.

## LETTERS & SCIENCE - COLLEGE-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Applied Social Science, BLS (p. 1112)
- Biochemistry, B.A. (L&S) (p. 1115)
- Biochemistry, B.S. (L&S) (p. 1124)
- College of Letters & Science Honors in the Liberal Arts (p. 1133)
- Individual Major, B.A. (p. 1134)
- Individual Major, B.S. (p. 1137)
- Microbiology, B.A. (L&S) (p. 1141)
- Microbiology, B.S. (L&S) (p. 1145)

## APPLIED SOCIAL SCIENCE, BLS

**Admissions to the Applied Social Science, B.S. have been suspended as of fall 2023. If you have any questions, please contact the department.**

The Major in Applied Social Science (MASS) is completed with the Bachelor of Liberal Studies (BLS) degree. The BLS and MASS are offered fully online and are ideal for returning students with some college credit. UW-Madison Online programs are designed with adult students in mind; they give students the flexibility to earn their degree while still meeting obligations at work and home.

Students in the MASS program will learn about how Social and Behavioral Science apply to their own lives and the world around them. BLS and MASS students will learn about world language study and global issues; understanding and engaging with diverse communities; ethical communication; and broader social issues that shape current events. Applied Social Sciences explores systematic and evidence-based study of the social world, encompassing all of the political, economic, legal, technological and cultural ideas, structures and processes that humans create to live together as a society. Social science data, methods, and theories help students understand how social life works to help social life work better.

Applied study across the social sciences, combined with integrated study of the liberal arts and sciences, is an ideal framework for identifying issues, questions, and opportunities that are important to humans, groups, institutions, and society. Students in this program will improve their skills as communicators, and as knowledgeable participants in a civil and just society. They will increase their skills and develop their abilities to create and support more effective and equitable solutions to social problems.

For more information, visit the UW-Madison Online admissions website or email a UW-Madison Online enrollment coach. They are here to help you navigate the application process.

## HOW TO GET IN

**Admissions to the Applied Social Science, B.S. have been suspended as of fall 2023. If you have any questions, please contact the department.**

Only students admitted to the BLS degree may declare this major. Students new to UW-Madison apply to the Bachelor of Liberal Studies program through UW-Madison Online (<https://online.wisc.edu/apply/>). UW-Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). For more information, email a UW-Madison Online enrollment coach ([uwmadison@online.wisc.edu](mailto:uwmadison@online.wisc.edu)).

Reentry students who have previously attended the University of Wisconsin-Madison may also be considered for the Bachelor of Liberal Studies. Reentry students considering applying should email a UW-Madison Online academic and career advisor ([advisors@online.wisc.edu](mailto:advisors@online.wisc.edu)) for more information.



## CURRENT STUDENTS

Students currently enrolled in an on-campus degree program are not eligible to transfer into this UW-Madison Online degree program or to combine this major with an in-person degree.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF LIBERAL STUDIES (BLS) BACHELOR OF LIBERAL STUDIES DEGREE REQUIREMENTS

- |                       |   |
|-----------------------|---|
| Breadth in the Degree | Complete:   |
|                       | <ul style="list-style-type: none"> <li>• 9 credits of Humanities breadth; and</li> <li>• 9 credits of Social Science breadth; and</li> <li>• 9 credits of Biological, Physical or Natural Science breadth.</li> </ul> |

- |                             |   |
|-----------------------------|---|
| BLS Broad Field Requirement | Complete:   |
|                             | <ul style="list-style-type: none"> <li>• 6 credits of Beyond US: Global &amp; Language Study; and</li> <li>• 3 credits of Data Science &amp; Digital Communication; and</li> <li>• 3 credits of Race, Diversity, &amp; Global Issues in Context.</li> </ul> |

- |  |   |
|--|---|
| Integrating College, Career, and Liberal Studies | Complete at least 6 credits of Integrating College, Career, and Liberal Studies coursework. |
|--|---|

Depth of Intermediate/Advanced Coursework	Complete at least 30 credits at Intermediate or Advanced level.
Major	Declare and complete at least one major within the BLS degree program.
Elective	Complete elective credits to reach 120 total credits for the degree.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 GPA in all coursework at UW–Madison</li> <li>• 2.000 GPA in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• Eligible courses may apply to multiple requirements unless specifically noted otherwise.</li> <li>• Pass/Fail courses do not meet requirements, but may count as Electives.</li> <li>• Courses with multiple breadth designations may only be used to meet one breadth requirement.</li> <li>• Courses used to meet Communication A and Quantitative Reasoning A may not also be used to meet Breadth Requirements.</li> </ul>

### BLS Broad Field Requirement

Code	Title	Credits
<b>Beyond US: Global and Language Study (complete at least two):</b>		<b>6</b>
GEOG 340	World Regions in Global Context	
LINGUIS/ ANTHRO/ FOLKLORE/ INTL ST 211	Global Language Issues	
<b>Data Science and Digital Communication (complete at least one):</b>		<b>3</b>
COM ARTS 325	Media and Human Behavior	
JOURN 175	Media Fluency for the Digital Age	
L I S 351	Introduction to Digital Information	
L I S 407	Data Storytelling with Visualization	
L I S 500	Code and Power	
<b>Race, Diversity, and Global Issues in Context (complete at least one):</b>		<b>3</b>
HDFS 174	Introduction into Cultural Diversity of Families	
JOURN 162	Mass Media in Multicultural America	
L I S 500	Code and Power	

**Total Credits** **12**

### Integrating College, Career, and Liberal Studies

Code	Title	Credits
<b>Complete at least 6 credits from:</b>		<b>6</b>
INTER-LS 145	How to Succeed in College	
INTER-LS 210	L&S Career Development: Taking Initiative	
INTER-LS 215	Communicating About Careers	

INTER-LS 260 Internship in the Liberal Arts and Sciences

**Total Credits** 6

## REQUIREMENTS FOR THE MAJOR

Complete 30 credits from the following:

**Code Title Credits**  
**Foundations (complete both):** 6

INTER-LS 301 Methods in the Applied Social Sciences

INTER-LS 302 Problems in the Applied Social Sciences

**Integrative Depth (complete 18 credits, including at least one course in each of the four areas below):** 18

*Ethical Communication (complete one):*

PHILOS 243 Ethics in Business

COM ARTS 325 Media and Human Behavior

COM ARTS 371 Communication and Conflict Resolution

L I S 440 Navigating the Data Revolution: Concepts of Data & Information Science

L I S 661 Information Ethics and Policy

*Diverse Communities (complete one):*

COM ARTS 373 Intercultural Communication & Rhetoric

JOURN 162 Mass Media in Multicultural America

L I S 500 Code and Power

*Research Tools (complete one):*

STAT 301 Introduction to Statistical Methods

L I S 351 Introduction to Digital Information

LINGUIS 237 Language in Wisconsin

SOC/  
C&E SOC 357 Methods of Sociological Inquiry

SOC/  
C&E SOC 360 Statistics for Sociologists I

*Social Issues (complete one):*

L I S 440 Navigating the Data Revolution: Concepts of Data & Information Science

L I S 661 Information Ethics and Policy

GEOG 307 International Migration, Health, and Human Rights

LEGAL ST/  
POLI SCI 217 Law, Politics and Society

**Capstone (complete both):** 6

INTER-LS 601 Applied Social Sciences Problem Proposal

INTER-LS 602 Applied Social Sciences Problem Analysis

**Total Credits** 30

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all major courses
- 15 upper-level credits, taken in residence<sup>1</sup>
- 15 credit in the major, taken on campus

## FOOTNOTES

1

Upper-level courses in the major are course with the Intermediate or Advanced level designation

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize, reason with, and combine multiple forms of qualitative and quantitative information and data that are common to the social sciences, from diverse perspectives and sources.
2. Critically evaluate and analyze information using a variety of methods common to the social sciences, informed by diverse perspectives.
3. Approach complex social, interpersonal, and institutional issues and opportunities for innovation from multiple perspectives, understanding them in a variety of contexts and from different cultural lenses.
4. Use tools and techniques common to the social sciences to combine their rigorous analysis of relevant evidence to develop and defend creative insights and effective solutions concerning these important issues.
5. Based on an understanding of the varied ways in which people experience social life and social institutions, students will collaborate and communicate proposed solutions effectively and ethically with people from a range of perspectives, cultures, and backgrounds.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://oss.wisc.edu/about-us/>).

#### Contact Information

Office of Online Student Success  
 oss@advising.wisc.edu  
 Ingraham Hall  
 155 Observatory Drive  
 Madison, WI 53706

### CAREERS

Completion of the BLS+MASS complements many career paths. Coursework designed around a liberal arts education provides students with critical thinking, qualitative and quantitative analysis, and communication skills needed in all industries. A focused study of social sciences helps graduates understand how:

- The social world can be understood and explored in a structured and guided way.
- The tools used in the study of the social world can help identify issues that need attention, and problems that could be solved.

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors help prepare students for life post-graduation through individual and group advising.

## PEOPLE

### BLS+MASS PROGRAM COMMITTEE

Derek Bean, Faculty Associate (Statistics)  
 Nina Valeo Cooke, Director of Curricular & Student Services (Gender & Women's Studies)  
 Greg Downey, Professor of Journalism and of Information Studies, Associate Dean for the Social Sciences Founding Chair  
 Amy Gangl, Director of Undergraduate Studies, Instructor (Political Science)  
 Melanie Jones, Undergraduate Program Coordinator (Psychology)  
 Rick Keyser, Senior Lecturer (Legal Studies)  
 Lyn Macgregor, Academic Advisor & Curriculum Planner (Sociology)  
 Sara McKinnon, Associate Professor (Communication Arts)  
 James Messina, Associate Professor (Philosophy)  
 Kris Olds, Professor (Geography)  
 Greg Pac, Senior Lecturer (Economics)  
 Rajiv Rao, Associate Professor (Language Sciences)  
 Hernando Rojas, Professor (School of Journalism and Mass Communication)  
 Dorothea Salo, Distinguished Faculty Associate (The Information School)

Rebecca Shields, Instructional Administrator (Language Sciences)  
 Michelle Szabo, Academic Department Manager (Geoscience)  
 Benedek Valko, Professor (Mathematics)  
 David Zimmerman, Professor (English)

### EX OFFICIO

Kimbrin Cornelius, Assistant Dean for Teaching & Learning Administration and Interim L&S OUD Coordinator  
 Elaine M. Klein, Associate Dean (Academic Planning)  
 Christopher Lee, Assistant Dean and Director, Academic Deans Services  
 Shirin Malekpour, Associate Dean (Teaching & Learning Administration)

## BIOCHEMISTRY, B.A. (L&S)

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal, or population-level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's-level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## HOW TO GET IN

Students may declare the major via an appointment with the undergraduate advisor at any time.

The Biochemistry major is offered through either CALS or the College of Letters & Science (L&S). Students interested in the differences or transferring between CALS and L&S should meet with the advisor to discuss this in more detail.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CALS) have the option to declare biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies.

Students who intend to major in Biochemistry may not combine this major ("double major") with the Molecular and Cell Biology major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR MATHEMATICS

#### Mathematics Requirements

Code	Title	Credits
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Complete one of the following options:

MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	9
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	14
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	10

### CHEMISTRY

#### General Chemistry

Code	Title	Credits
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Complete one sequence:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

#### Organic Chemistry

Code	Title	Credits
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Complete All:

CHEM 343	Organic Chemistry I	3
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CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

the Biochemistry requirement, and then any additional biochemistry courses taken can count for Upper-Level Biology.

### Analytical Chemistry

Code	Title	Credits
Complete one:		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
CHEM 116	Chemical Principles II (satisfies both general and analytical chemistry requirements)	5

### Physical Chemistry

Code	Title	Credits
Complete one:		
CHEM 565	Biophysical Chemistry (recommended)	4
CHEM 561 & CHEM 563	Physical Chemistry and Physical Chemistry Laboratory I	4

## BIOLOGY

Students must complete either Option A (introductory + upper-level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

### Option A

#### Option A Introductory Biology

Code	Title	Credits
Complete one of the following introductory biology options:		
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	10
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	10

#### AND Option A Upper-Level Biology

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits—more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the course list below. To see courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program/)).

**Important:** A course may not double count in both the "Upper-Level Biology" and the "Biochemistry" requirements for the major. Biochemistry courses on this list can count only for "Upper-Level Biology" if they are above-and-beyond what is needed to fulfill the "Biochemistry" portion of the major. For example, if students have taken BIOCHEM 501 (<http://guide.wisc.edu/search/?P=BIOCHEM%20501>), they will need one advanced biochemistry elective to fulfill

Code	Title	Credits
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 435	Fundamentals of Human Physiology	5
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AGRONOMY/A A E/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3
AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI 314	Poultry Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI 503	Avian Physiology	3
AN SCI 508	Poultry Products Technology	3
AN SCI 511	Breeder Flock and Hatchery Management	3
AN SCI 512	Management for Avian Health	3
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3

AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3	BOTANY 330	Algae	3
AN SCI 610	Quantitative Genetics	3	BOTANY/ PL PATH 332	Fungi	4
AN SCI/ NUTR SCI 626	Experimental Diet Design	1	BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4
B M E/MED PHYS/ PHMCOL- M/PHYSICS/ RADIOL 619	Microscopy of Life	3	BOTANY 400	Plant Systematics	4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3	BOTANY 401	Vascular Flora of Wisconsin	4
BIOCHEM 550	Principles of Human Disease and Biotechnology	2	BOTANY/ F&W ECOL 402	Dendrology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3	BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
BIOCHEM/ M M & I 575	Biology of Viruses	2	BOTANY 422	Plant Geography	3
BIOCHEM 601	Protein and Enzyme Structure and Function	2	BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3	BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3	BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BIOCHEM/ NUTR SCI 619	Advanced Nutrition: Intermediary Metabolism of Macronutrients	3	BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3	BOTANY 500	Plant Physiology	3-4
BIOCHEM/ BOTANY 621	Plant Biochemistry	3	BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2	BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
BIOCHEM 630		3	BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BSE 349	Quantitative Techniques for Biological Systems	3	BOTANY/ GENETICS/M M & I/ PL PATH 655	Biology and Genetics of Fungi	3
BSE 364	Engineering Properties of Food and Biological Materials	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE 365	Measurements and Instrumentation for Biological Systems	3	CHEM 575	Advanced Topics in Chemistry (Topics in Chemical Biology)	1-4
BSE/ENVIR ST 367	Renewable Energy Systems	3	CRB 625	Stem Cell Seminar	1
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE 461	Food and Bioprocessing Operations	3	DY SCI 378	Lactation Physiology	3
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	DY SCI 535	Dairy Farm Management Practicum	3
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM 321	Physiology of Insects	3
B M I/ COMP SCI 576	Introduction to Bioinformatics	3	ENTOM 331	Taxonomy of Mature Insects	4
BOTANY 300	Plant Anatomy	4	ENTOM 351	Principles of Economic Entomology	3
BOTANY 305	Plant Morphology and Evolution	4	ENTOM/ ZOOLOGY 371	Medical Entomology	3
			ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
			ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2

ENTOM/ ZOOLOGY 540	Theoretical Ecology	3	F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3	F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3	F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3	F&W ECOL 655	Animal Population Dynamics	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3	GENETICS 466	Principles of Genetics	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3	GENETICS 467	General Genetics 1	3
ENVIR ST/ ATM OCN 520	Bioclimatology	3	GENETICS 468	General Genetics 2	3
ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4	GENETICS 525	Epigenetics	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2	GENETICS 545	Genetics Laboratory	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3	GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
FOOD SCI 410	Food Chemistry	3	GENETICS/ MD GENET 565	Human Genetics	3
FOOD SCI 440	Principles of Food Engineering	3	GENETICS 566	Advanced Genetics	3
FOOD SCI 511	Chemistry and Technology of Dairy Products	3	HORT 320	Environment of Horticultural Plants	3
FOOD SCI 514	Integrated Food Functionality	4	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
FOOD SCI 550	Fermented Foods and Beverages	2	M M & I 301	Pathogenic Bacteriology	2
FOOD SCI 610	Food Proteins	2	M M & I 341	Immunology	3
FOOD SCI 611	Chemistry and Technology of Dairy Products	3	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
F&W ECOL 300	Forest Biometry	4	M M & I/PATH- BIO 528	Immunology	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL 318	Principles of Wildlife Ecology	3	MED PHYS/ H ONCOL 410	Radiobiology	2-3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL 379	Principles of Wildlife Management	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 401	Physiological Animal Ecology	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL 404	Wildlife Damage Management	3	MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
F&W ECOL 410	Principles of Silviculture	3	MICROBIO 345	Introduction to Disease Biology	3
F&W ECOL 415	Tree Physiology	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
F&W ECOL 550	Forest Ecology	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL 561	Wildlife Management Techniques	3			
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2			
F&W ECOL 590	Integrated Resource Management	3			

MICROBIO 520	Planetary Microbiology: What Life Here Tells Us About Life Out There	3	ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3	ZOOLOGY 304	Marine Biology	2
MICROBIO 525	Field Studies of Planetary Microbiology and Life in the Universe	3	ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
MICROBIO 526	Physiology of Microorganisms	3	ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2	ZOOLOGY 425	Behavioral Ecology	3
MICROBIO 551	Capstone Research Project in Microbiology	2	ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
MICROBIO 607	Advanced Microbial Genetics	3	ZOOLOGY 470	Introduction to Animal Development	3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2	ZOOLOGY 504	Modeling Animal Landscapes	3-5
NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4	ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4	ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2
NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3	ZOOLOGY/ PSYCH 523	Neurobiology	3
NUTR SCI 332	Human Nutritional Needs	3	ZOOLOGY/ GEOSCI 541	Paleobiology	3
NUTR SCI 431	Nutrition in the Life Span	3	ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3
ONCOLOGY 401	Introduction to Experimental Oncology	2	ZOOLOGY 555	Laboratory in Developmental Biology	3
ONCOLOGY/ M&ENVTOX/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3	ZOOLOGY 570	Cell Biology	3
PHM SCI 310	Drugs and Their Actions	2	ZOOLOGY 603	Endocrinology	3-4
PHM SCI/B M E 430	Biological Interactions with Materials	3	ZOOLOGY 611	Comparative and Evolutionary Physiology	3
PHYSICS/B M E/ MED PHYS/ PHMCOL-M/ RADIOL 619	Microscopy of Life	3	ZOOLOGY 612	Comparative Physiology Laboratory	2
PL PATH 300	Introduction to Plant Pathology	4	ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind	3
PL PATH/ SOIL SCI 323	Soil Biology	3	ZOOLOGY 625	Development of the Nervous System	2
PL PATH 517	Plant Disease Resistance	2-3			
PL PATH 558	Biology of Plant Pathogens	3			
PL PATH 559	Diseases of Economic Plants	3			
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3			
PL PATH 622	Plant-Bacterial Interactions	2-3			
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses	3			
PSYCH 454	Behavioral Neuroscience	3			
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3			
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3			
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3			
ZOOLOGY 300	Invertebrate Biology and Evolution	3			

### Option B (Biocore)

### Option B (Biocore)

Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply and be accepted to the program to take BIOCORE classes.

Code	Title	Credits
Complete these lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Principles of Physiology	3
BIOCORE 587	Biological Interactions	3
Complete two of these lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	4
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	

**Total Credits** **16**



## PHYSICS (CALCULUS-BASED)

### Physics Requirements

Code	Title	Credits
Complete one of the following options: <sup>1</sup>		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

## BIOCHEMISTRY

One set of introductory coursework **and** the capstone course are required, for a total of **three** BIOCHEM courses.

### Introductory Courses

Code	Title	Credits
<b>Select one of the following options:</b>		
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6-7

#### OR

BIOCHEM 501	Introduction to Biochemistry	3
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And one of the following advanced biochemistry electives:

BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	
BIOCHEM 550	Principles of Human Disease and Biotechnology	
BIOCHEM 570	Computational Modeling of Biological Systems	
BIOCHEM/ M M & I 575	Biology of Viruses	
BIOCHEM 601	Protein and Enzyme Structure and Function	
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	
BIOCHEM/ BOTANY 621	Plant Biochemistry	
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	
BIOCHEM 630		
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	

### Capstone

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4

**Total Credits** **4**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all BIOCHEM and major courses
- 2.000 GPA on at least 15 upper-level major credits in Residence. <sup>2</sup>
- 15 credits in BIOCHEM, taken on campus

#### 1

Students should consult with their advisor to discuss options if they have credit for PHYSICS 103 ([http://guide.wisc.edu/search/?P=PHYSICS %20103](http://guide.wisc.edu/search/?P=PHYSICS%20103)) **and** PHYSICS 104 ([http://guide.wisc.edu/search/?P=PHYSICS %20104](http://guide.wisc.edu/search/?P=PHYSICS%20104)).

#### 2

Major courses numbered 300-699 are considered Upper-Level in the major for purposes of this requirement.

## HONORS IN THE MAJOR

Students may declare Honors in the Biochemistry Major in consultation with their Biochemistry undergraduate advisor. To be admitted to Honors in the Major in Biochemistry, students must have declared a major in Biochemistry and have a 3.300 overall university GPA.

## HONORS IN THE MAJOR IN BIOCHEMISTRY: REQUIREMENTS

To earn Honors in the Major in Biochemistry, students must satisfy the requirements for the major (above) as well as the following requirements. All courses used for Honors in the Major requirements must receive "B" or better grades to fulfill requirements.

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all BIOCHEM courses, and all courses accepted in the major
- Complete BIOCHEM 507 and BIOCHEM 508 for Honors
- Complete a two-semester Senior Honors Thesis for 6 credits total
- Complete at least 14 credits of any combination of the following coursework:
  - Honors courses that would fulfill the Biology or Biochemistry requirements in the major (see above)
  - Statistics coursework (does not need to be taken for Honors): STAT 301, STAT 371, or STAT/B M I 541
  - Biochemistry elective coursework beyond the major requirements (does not need to be taken for Honors): NUTR SCI/ BIOCHEM 510, BIOCHEM 550, BIOCHEM 570 M M & I/ BIOCHEM 575, BIOCHEM 601, MATH/B M I/ BIOCHEM/ BMOLCHEM 609, MICROBIO/ BIOCHEM/ GENETICS 612, MD GENET/ BIOCHEM/ GENETICS 620, BOTANY/ BIOCHEM 621, BIOCHEM 625, BIOCHEM 630, BIOCHEM/ NUTR SCI 645
  - Honors coursework in MATH, CHEM, or PHYSICS, from the list below:

### Math

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3

MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

## Chemistry

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory I	1
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory II	1

## Physics

Code	Title	Credits
PHYSICS 201	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5
PHYSICS 248	A Modern Introduction to Physics	5
PHYSICS 249	A Modern Introduction to Physics	4

# UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify the fundamental biochemical principles that underlie all biological processes.
2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.
3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.
5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### SAMPLE BIOCHEMISTRY FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104 (if needed)	5
MATH 221	5	MATH 222	4
Communications Part A	3	Literature Breadth	3
BIOCHEM 100 <sup>1</sup>	1	Social Science Breadth	3
	<b>13</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/ BOTANY 151 <sup>2</sup>	5	ZOOLOGY/BIOLOGY/ BOTANY 152	5
CHEM 343	3	CHEM 344	2
Literature Breadth	3	CHEM 345	3
Social Science Breadth	3	Ethnic Studies	3
INTER-LS 210	1	Social Science Breadth	3
	<b>15</b>		<b>16</b>

#### Junior

Fall	Credits	Spring	Credits
BIOCHEM 507	3	BIOCHEM 508	3-4
PHYSICS 207 or 201	5	PHYSICS 208 or 202	5
Humanities Breadth	3	CHEM 327	4

Electives	4 Electives	4
	<b>15</b>	<b>16</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
		<b>Credits</b>
CHEM 565	4 BIOCHEM 551	4
Upper-Level Biology for major	3 Upper-Level Biology for major	3
Social Science Breadth	3 Humanities Breadth	3
Electives	2 Electives	2
BIOCHEM 691 or 681 (if needed) <sup>3</sup>	3 BIOCHEM 692 or 682 (if needed)	3
	<b>15</b>	<b>15</b>

**Total Credits 120****1**

First-year students interested in exploring the major can enroll in BIOCHEM 100.

**2**

Students may wish to consider pursuing the Biology Core Curriculum (Biocore) Honors certificate. For more details about how BIOCORE coursework can help them meet requirements for this major, see the Requirements page (<https://guide.wisc.edu/undergraduate/letters-science/college-wide/biochemistry-bs/#requirements-text>). Students should consult with their advisor to identify the biological science sequence that best suits their academic and personal goals.

**3**

Senior Thesis, Directed Study, or work experience in laboratory are recommended, but are not required for the major. However, a Senior Honors Thesis is required to earn Honors in the Major.

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, use Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).
- Send an email with brief questions to [biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu).
- Drop-in advising hours for quick (10–15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry / Microbiology Undergraduate Advising Hub website (<https://biochemmicrobio.wisc.edu/>) each semester.

### CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.

- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) – a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Henzler-Wildman, Katie  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Ntambi, James  
 Palmenberg, Ann  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Rienstra, Chad  
 Senes, Alessandro

Sussman, Mike  
Wright, Elizabeth

## ASSOCIATE PROFESSORS

Hoskins, Aaron  
Raman, Vatsan

## ASSISTANT PROFESSORS

Cantor, Jason  
Coyle, Scott  
Grant, Tim  
Kirchdoerfer, Robert  
Lim, Ci Ji  
Romero, Phil  
Simcox, Judith  
Venturelli, Ophelia  
Weeks, Amy

## ASSOCIATE FACULTY

Pennella, Mario  
Shu, Erica

## ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)

For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW-Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB/>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biochemistry/>) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program/)) and the advisors can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## BIOCHEMISTRY, B.S. (L&S)

Biochemistry is a very broad science that studies the molecules and chemistry of life. Biochemistry focuses on the structure, properties, and interactions of molecules such as proteins, nucleic acids, sugars and lipids. Biochemistry's aim is to understand how these molecules participate in the processes that support the various functions of the living cell. These studies are therefore essential for understanding disease and finding cures, for improving agriculture and the production of food and biofuels, and to produce innovation in biotechnology.

Whereas other biological science majors may focus on cellular, organismal, or population-level biology, biochemistry focuses on processes that occur at the molecular to cellular levels. Therefore, this major has a greater focus on basic and quantitative sciences, such as math and, particularly, on chemistry.

Biochemistry graduates go on to a variety of careers in science and science-related fields. The major is designed to fit the needs of the student who wishes to achieve bachelor's-level training as well as those planning to pursue graduate or professional study. The degree serves as an excellent background for medical school or veterinary school admission, as well as for graduate study in biochemistry or other allied fields (biology, bacteriology, genetics, molecular biology, or oncology).

## HOW TO GET IN

Students may declare the major via an appointment with the undergraduate advisor at any time.

The Biochemistry major is offered through either CALS or the College of Letters & Science (L&S). Students interested in the differences or transferring between CALS and L&S should meet with the advisor to discuss this in more detail.

Students who attend Student Orientation, Advising, and Registration (SOAR) with the College of Agricultural and Life Sciences (CALS) have the option to declare biochemistry at SOAR. Students may otherwise declare after they have begun their undergraduate studies.

Students who intend to major in Biochemistry may not combine this major ("double major") with the Molecular and Cell Biology major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS

### Mathematics Requirements

Code	Title	Credits
Complete one of the following options:		
MATH 221 & MATH 222	Calculus and Analytic Geometry 1 and Calculus and Analytic Geometry 2	9
MATH 171 & MATH 217 & MATH 222	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II and Calculus and Analytic Geometry 2	14
MATH 275 & MATH 276	Topics in Calculus I and Topics in Calculus II	10

## CHEMISTRY

### General Chemistry

Code	Title	Credits
Complete one sequence:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
CHEM 109	Advanced General Chemistry	5
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II (satisfies both general and analytical chemistry requirements)	10

### Organic Chemistry

Code	Title	Credits
Complete All:		
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

### Analytical Chemistry

Code	Title	Credits
Complete one:		
CHEM 327	Fundamentals of Analytical Science	4
CHEM 329	Fundamentals of Analytical Science	4
CHEM 116	Chemical Principles II (satisfies both general and analytical chemistry requirements)	5

### Physical Chemistry

Code	Title	Credits
Complete one:		
CHEM 565	Biophysical Chemistry (recommended)	4
CHEM 561 & CHEM 563	Physical Chemistry and Physical Chemistry Laboratory I	4

## BIOLOGY

Students must complete either Option A (introductory + upper-level biology), or Option B (Biocore), for 16 total credits of biological science coursework.

### Option A Option A Introductory Biology

Code	Title	Credits
BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology (recommended)	10
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	10

### AND Option A Upper-Level Biology

At least 6 credits of upper-level biological science coursework are required (to achieve 16 total credits—more than 6 credits may be required if introductory biology totals less than 10 credits due to transfer credits). Select from the course list below. To see courses offered in specific upcoming semesters, please see the Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/advanced-biology-courses-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/advanced-biology-courses-undergraduate-program/)).

**Important:** A course may not double count in both the "Upper-Level Biology" and the "Biochemistry" requirements for the major. Biochemistry courses on this list can count only for "Upper-Level Biology" if they are above-and-beyond what is needed to fulfill the "Biochemistry" portion of the major. For example, if students have taken BIOCHEM 501 (<http://guide.wisc.edu/search/?P=BIOCHEM%20501>), they will need one advanced biochemistry elective to fulfill the Biochemistry requirement, and then any additional biochemistry courses taken can count for Upper-Level Biology.

Code	Title	Credits
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 435	Fundamentals of Human Physiology	5
AGRONOMY 300	Cropping Systems	3
AGRONOMY 302	Forage Management and Utilization	3
AGRONOMY/HORT/ SOIL SCI 326	Plant Nutrition Management	3
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AGRONOMY/A A E/ NUTR SCI 350	World Hunger and Malnutrition	3
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	3

AGRONOMY 377	Global Food Production and Health	3
AGRONOMY/ HORT 501	Principles of Plant Breeding	3
AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3
AN SCI/ FOOD SCI 305	Introduction to Meat Science and Technology	4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI 314	Poultry Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI/DY SCI 370	Livestock Production and Health in Agricultural Development	3
AN SCI/DY SCI 414	Ruminant Nutrition & Metabolism	3
AN SCI 415	Application of Monogastric Nutrition Principles	2
AN SCI 431	Beef Cattle Production	3
AN SCI 432	Swine Production	3
AN SCI/DY SCI 434	Reproductive Physiology	3
AN SCI 503	Avian Physiology	3
AN SCI 508	Poultry Products Technology	3
AN SCI 511	Breeder Flock and Hatchery Management	3
AN SCI 512	Management for Avian Health	3
AN SCI/ FOOD SCI 515	Commercial Meat Processing	2
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3
AN SCI 610	Quantitative Genetics	3
AN SCI/ NUTR SCI 626	Experimental Diet Design	1
B M E/MED PHYS/ PHMCOL- M/PHYSICS/ RADIOL 619	Microscopy of Life	3
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology	3

BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3	BOTANY 500	Plant Physiology	3-4
BIOCHEM/ NUTR SCI 619	Advanced Nutrition: Intermediary Metabolism of Macronutrients	3	BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3	BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3	BOTANY/HORT/ SOIL SCI 626	Mineral Nutrition of Plants	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2	BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BIOCHEM 630		3	BOTANY/ GENETICS/M M & I/ PL PATH 655	Biology and Genetics of Fungi	3
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease	3	BOTANY/ LAND ARC 670	Adaptive Restoration Lab	2
BSE 349	Quantitative Techniques for Biological Systems	3	CHEM 575	Advanced Topics in Chemistry (Topics in Chemical Biology)	1-4
BSE 364	Engineering Properties of Food and Biological Materials	3	CRB 625	Stem Cell Seminar	1
BSE 365	Measurements and Instrumentation for Biological Systems	3	CRB 650	Molecular and Cellular Organogenesis	3
BSE/ENVIR ST 367	Renewable Energy Systems	3	DY SCI 378	Lactation Physiology	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3	DY SCI 535	Dairy Farm Management Practicum	3
BSE 461	Food and Bioprocessing Operations	3	ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
BSE 472	Sediment and Bio-Nutrient Engineering and Management	3	ENTOM 321	Physiology of Insects	3
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3	ENTOM 331	Taxonomy of Mature Insects	4
B M I/STAT 541	Introduction to Biostatistics	3	ENTOM 351	Principles of Economic Entomology	3
B M I/ COMP SCI 576	Introduction to Bioinformatics	3	ENTOM/ ZOOLOGY 371	Medical Entomology	3
BOTANY 300	Plant Anatomy	4	ENTOM 432	Taxonomy and Bionomics of Immature Insects	4
BOTANY 305	Plant Morphology and Evolution	4	ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
BOTANY 330	Algae	3	ENTOM/ ZOOLOGY 540	Theoretical Ecology	3
BOTANY/ PL PATH 332	Fungi	4	ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
BOTANY/ AGRONOMY/ HORT 339	Plant Biotechnology: Principles and Techniques I	4	ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BOTANY 400	Plant Systematics	4	ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
BOTANY 401	Vascular Flora of Wisconsin	4	ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
BOTANY/ F&W ECOL 402	Dendrology	2	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3	ENVIR ST/ ATM OCN 520	Bioclimatology	3
BOTANY 422	Plant Geography	3	ENVIR ST/A A E/ F&W ECOL 652	Decision Methods for Natural Resource Managers	3-4
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4	FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory	2
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4	FOOD SCI/ MICROBIO 325	Food Microbiology	3
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3	FOOD SCI 410	Food Chemistry	3
BOTANY/AMER IND/ ANTHRO 474	Ethnobotany	3-4	FOOD SCI 440	Principles of Food Engineering	3

FOOD SCI 511	Chemistry and Technology of Dairy Products	3	HORT/ AGRONOMY 501	Principles of Plant Breeding	3
FOOD SCI 514	Integrated Food Functionality	4	M M & I 301	Pathogenic Bacteriology	2
FOOD SCI 550	Fermented Foods and Beverages	2	M M & I 341	Immunology	3
FOOD SCI 610	Food Proteins	2	M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3
FOOD SCI 611	Chemistry and Technology of Dairy Products	3	M M & I/PATH- BIO 528	Immunology	3
F&W ECOL 300	Forest Biometry	4	M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology	4	M M & I/ POP HLTH 603	Clinical and Public Health Microbiology	5
F&W ECOL/ HORT/LAND ARC/ PL PATH 309	Diseases of Trees and Shrubs	3	MED PHYS/ H ONCOL 410	Radiobiology	2-3
F&W ECOL 318	Principles of Wildlife Ecology	3	MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3	MICROBIO 303	Biology of Microorganisms	3
F&W ECOL/ ENVIR ST/ ZOOLOGY 360	Extinction of Species	3	MICROBIO 304	Biology of Microorganisms Laboratory	2
F&W ECOL 379	Principles of Wildlife Management	3	MICROBIO 330	Host-Parasite Interactions	3
F&W ECOL 401	Physiological Animal Ecology	3	MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3
F&W ECOL 404	Wildlife Damage Management	3	MICROBIO 345	Introduction to Disease Biology	3
F&W ECOL 410	Principles of Silviculture	3	MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
F&W ECOL 415	Tree Physiology	3	MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3	MICROBIO 470	Microbial Genetics & Molecular Machines	3
F&W ECOL 550	Forest Ecology	3	MICROBIO 520	Planetary Microbiology: What Life Here Tells Us About Life Out There	3
F&W ECOL 561	Wildlife Management Techniques	3	MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2	MICROBIO 525	Field Studies of Planetary Microbiology and Life in the Universe	3
F&W ECOL 590	Integrated Resource Management	3	MICROBIO 526	Physiology of Microorganisms	3
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1	MICROBIO 527	Advanced Laboratory Techniques in Microbiology	2
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1	MICROBIO 551	Capstone Research Project in Microbiology	2
F&W ECOL/ AGRONOMY/ ENTOM/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1	MICROBIO 607	Advanced Microbial Genetics	3
F&W ECOL 655	Animal Population Dynamics	3	MICROBIO 632	Industrial Microbiology/ Biotechnology	2
GENETICS 466	Principles of Genetics	3	NTP/ NEURODPT 610	Cellular and Molecular Neuroscience	4
GENETICS 467	General Genetics 1	3	NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
GENETICS 468	General Genetics 2	3	NTP/ NEURODPT 629	Molecular and Cellular Mechanisms of Memory	3
GENETICS 525	Epigenetics	3	NUTR SCI 332	Human Nutritional Needs	3
GENETICS 545	Genetics Laboratory	2	NUTR SCI 431	Nutrition in the Life Span	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3	ONCOLOGY 401	Introduction to Experimental Oncology	2
GENETICS/ MD GENET 565	Human Genetics	3			
GENETICS 566	Advanced Genetics	3			
HORT 320	Environment of Horticultural Plants	3			



ONCOLOGY/ M&ENVTOX/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
PHM SCI 310	Drugs and Their Actions	2
PHM SCI/B M E 430	Biological Interactions with Materials	3
PHYSICS/B M E/ MED PHYS/ PHMCOL-M/ RADIOL 619	Microscopy of Life	3
PL PATH 300	Introduction to Plant Pathology	4
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
PL PATH 558	Biology of Plant Pathogens	3
PL PATH 559	Diseases of Economic Plants	3
PL PATH 602	Ecology, Epidemiology and Control of Plant Diseases	3
PL PATH 622	Plant-Bacterial Interactions	2-3
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses	3
PSYCH 454	Behavioral Neuroscience	3
SOIL SCI/ F&W ECOL 451	Environmental Biogeochemistry	3
SOIL SCI/ CIV ENGR 623	Microbiology of Waterborne Pathogens and Indicator Organisms	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab	2
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 504	Modeling Animal Landscapes	3-5
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab	2
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY/ GEOSCI 541	Paleobiology	3
ZOOLOGY/ GEOSCI 542	Invertebrate Paleontology	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 603	Endocrinology	3-4

ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory	2
ZOOLOGY/ ANTHRO/NTP/ PSYCH 619	Biology of Mind	3
ZOOLOGY 625	Development of the Nervous System	2

### Option B (Biocore)

### Option B (Biocore)

Biocore is an honors-level, integrated sequence of lecture and lab courses that covers introductory and intermediate biology topics. Students must apply and be accepted to the program to take BIOCORE classes.

Code	Title	Credits
Complete these lecture courses:		
BIOCORE 381	Evolution, Ecology, and Genetics	3
BIOCORE 383	Cellular Biology	3
BIOCORE 485	Principles of Physiology	3
BIOCORE 587	Biological Interactions	3
Complete two of these lab classes:		
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	4
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	

**Total Credits** **16**

## PHYSICS (CALCULUS-BASED)

### Physics Requirements

Code	Title	Credits
Complete one of the following options: <sup>1</sup>		
PHYSICS 207 & PHYSICS 208	General Physics and General Physics (recommended)	10
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10

## BIOCHEMISTRY

One set of introductory coursework **and** the capstone course are required, for a total of **three** BIOCHEM courses.

### Introductory Courses

Code	Title	Credits
<b>Select one of the following options:</b>		
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II (recommended)	6-7

### OR

BIOCHEM 501	Introduction to Biochemistry	3
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And one of the following advanced biochemistry electives:

BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	
BIOCHEM 550	Principles of Human Disease and Biotechnology	
BIOCHEM 570	Computational Modeling of Biological Systems	

BIOCHEM/ M M & I 575	Biology of Viruses
BIOCHEM 601	Protein and Enzyme Structure and Function
BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology
BIOCHEM/ BOTANY 621	Plant Biochemistry
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals
BIOCHEM 630	
BIOCHEM/ NUTR SCI 645	Molecular Control of Metabolism and Metabolic Disease

**Capstone**

Code	Title	Credits
BIOCHEM 551	Biochemical Methods	4
<b>Total Credits</b>		<b>4</b>

**RESIDENCE AND QUALITY OF WORK**

- 2.000 GPA in all BIOCHEM and major courses
- 2.000 GPA on at least 15 upper-level major credits in Residence.<sup>2</sup>
- 15 credits in BIOCHEM, taken on campus

**1**

Students should consult with their advisor to discuss options if they have credit for PHYSICS 103 (<http://guide.wisc.edu/search/?P=PHYSICS%20103>) **and** PHYSICS 104 (<http://guide.wisc.edu/search/?P=PHYSICS%20104>).

**2**

Major courses numbered 300-699 are considered Upper-Level in the major for purposes of this requirement.

**HONORS IN THE MAJOR**

Students may declare Honors in the Biochemistry Major in consultation with their Biochemistry undergraduate advisor. To be admitted to Honors in the Major in Biochemistry, students must have declared a major in Biochemistry and have a 3.300 overall university GPA.

**HONORS IN THE MAJOR IN BIOCHEMISTRY: REQUIREMENTS**

To earn Honors in the Major in Biochemistry, students must satisfy the requirements for the major (above) as well as the following requirements. All courses used for Honors in the Major requirements must receive "B" or better grades to fulfill requirements.

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all BIOCHEM courses, and all courses accepted in the major
- Complete BIOCHEM 507 and BIOCHEM 508 for Honors
- Complete a two-semester Senior Honors Thesis for 6 credits total
- Complete at least 14 credits of any combination of the following coursework:
  - Honors courses that would fulfill the Biology or Biochemistry requirements in the major (see above)
  - Statistics coursework (does not need to be taken for Honors): STAT 301, STAT 371, or STAT/B M I 541
  - Biochemistry elective coursework beyond the major requirements (does not need to be taken for Honors): NUTR SCI/ BIOCHEM 510, BIOCHEM 550, BIOCHEM 570 M M & I/ BIOCHEM 575, BIOCHEM 601, MATH/B M I/ BIOCHEM/ BMOLCHEM 609, MICROBIO/ BIOCHEM/ GENETICS 612, MD GENET/ BIOCHEM/ GENETICS 620, BOTANY/ BIOCHEM 621, BIOCHEM 625, BIOCHEM 630, BIOCHEM/ NUTR SCI 645
  - Honors coursework in MATH, CHEM, or PHYSICS, from the list below:

**Math**

Code	Title	Credits
MATH 275	Topics in Calculus I	5
MATH 276	Topics in Calculus II	5
MATH 341	Linear Algebra	3
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	5
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	5
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3

**Chemistry**

Code	Title	Credits
CHEM 109	Advanced General Chemistry	5
CHEM 115	Chemical Principles I	5
CHEM 116	Chemical Principles II	5
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 329	Fundamentals of Analytical Science	4
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 563	Physical Chemistry Laboratory I	1
CHEM 562	Physical Chemistry	3
CHEM 564	Physical Chemistry Laboratory II	1

## Physics

Code	Title	Credits
PHYSICS 201	General Physics	5
PHYSICS 202	General Physics	5
PHYSICS 207	General Physics	5
PHYSICS 208	General Physics	5
PHYSICS 241	Introduction to Modern Physics	3
PHYSICS 247	A Modern Introduction to Physics	5
PHYSICS 248	A Modern Introduction to Physics	5
PHYSICS 249	A Modern Introduction to Physics	4

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify the fundamental biochemical principles that underlie all biological processes.
2. Communicate biochemical knowledge in both written reports and oral presentations to scientists and non-scientists.
3. Evaluate how biochemistry relates to other scientific disciplines and to contemporary issues in our society.
4. Demonstrate professional and ethical responsibility in scientific research.
5. Design and conduct quantitative experiments and/or interpret data to address a scientific question.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### SAMPLE BIOCHEMISTRY FOUR-YEAR PLAN

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109	4-5	CHEM 104 (if needed)	5
MATH 221	5	MATH 222	4
Communications Part A	3	Literature Breadth	3
BIOCHEM 100 <sup>1</sup>	1	Social Science Breadth	3
<b>13</b>		<b>15</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/ BOTANY 151 <sup>2</sup>	5	ZOOLOGY/BIOLOGY/ BOTANY 152	5
CHEM 343	3	CHEM 344	2
Literature Breadth	3	CHEM 345	3
Social Science Breadth	3	Ethnic Studies	3
INTER-LS 210	1	Social Science Breadth	3
<b>15</b>		<b>16</b>	

#### Junior

Fall	Credits	Spring	Credits
BIOCHEM 507	3	BIOCHEM 508	3-4
PHYSICS 207 or 201	5	PHYSICS 208 or 202	5
Humanities Breadth	3	CHEM 327	4
Electives	4	Electives	4
<b>15</b>		<b>16</b>	

#### Senior

Fall	Credits	Spring	Credits
CHEM 565	4	BIOCHEM 551	4
Upper-Level Biology for major	3	Upper-Level Biology for major	3
Social Science Breadth	3	Humanities Breadth	3
Electives	2	Electives	2
BIOCHEM 691 or 681 (if needed) <sup>3</sup>	3	BIOCHEM 692 or 682 (if needed)	3
<b>15</b>		<b>15</b>	

#### Total Credits 120

#### 1

First-year students interested in exploring the major can enroll in BIOCHEM 100.

#### 2

Students may wish to consider pursuing the Biology Core Curriculum (Biocore) Honors certificate. For more details about how BIOCORE coursework can help them meet requirements for this major, see the Requirements page (<https://guide.wisc.edu/undergraduate/letters-science/college-wide/biochemistry-bs/#requirementstext>). Students should consult with their advisor to identify the biological science sequence that best suits their academic and personal goals.

#### 3

Senior Thesis, Directed Study, or work experience in laboratory are recommended, but are not required for the major. However, a Senior Honors Thesis is required to earn Honors in the Major.

## ADVISING AND CAREERS

### HOW TO SEEK ADVISING

- To schedule an appointment with the advisor, use Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).
- Send an email with brief questions to [biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu).
- Drop-in advising hours for quick (10–15 minute) questions, on a first-come, first-serve basis, are posted on the Biochemistry / Microbiology Undergraduate Advising Hub website (<https://biochemmicrobio.wisc.edu/>) each semester.

### CAREER EXAMPLES

- Take your skills to a rewarding career in product development, quality control, hospitals, biotechnology, university labs, pharmaceuticals, forensics, and more. Possibilities at top organizations and leading companies include positions such as protein purification scientist, lab manager, medical scribe, clinical research coordinator, and food safety and quality chemist.
- Pursue a professional degree in medical, dental, or veterinary school, using your background in biochemistry to aid your admission and success.
- Build on your research experience and continue graduate studies in biochemistry or a related field to shape a career in academia as a professor or in industry.
- Use your science background to inform patent law, science policy and ethics, sales and marketing for science and technology companies, scientific article publishing, and related fields.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) – a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences

- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW–Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

Amasino, Rick  
 Attie, Alan  
 Bednarek, Sebastian  
 Butcher, Sam  
 Cox, Mike  
 Craig, Elizabeth  
 Fox, Brian (Chair)  
 Friesen, Paul  
 Henzler-Wildman, Katie  
 Holden, Hazel  
 Kimble, Judith  
 Landick, Bob  
 Ntambi, James  
 Palmenberg, Ann  
 Ralph, John  
 Rayment, Ivan  
 Record, Tom  
 Rienstra, Chad  
 Senes, Alessandro  
 Sussman, Mike  
 Wright, Elizabeth

### ASSOCIATE PROFESSORS

Hoskins, Aaron  
 Raman, Vatsan

### ASSISTANT PROFESSORS

Cantor, Jason  
 Coyle, Scott  
 Grant, Tim  
 Kirchdoerfer, Robert  
 Lim, Ci Ji  
 Romero, Phil  
 Simcox, Judith  
 Venturelli, Ophelia  
 Weeks, Amy

### ASSOCIATE FACULTY

Pennella, Mario  
 Shu, Erica

### ACADEMIC ADVISORS

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)  
 For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in biochemistry, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The American Society for Biochemistry and Molecular Biology (ASBMB) UW–Madison Student Chapter (<https://win.wisc.edu/organization/ASBMB/>) is a student organization for students interested in biochemistry. ASBMB provides information about careers and job opportunities, how to get involved in research, and volunteer and outreach opportunities.
- Several biochemistry faculty members offer experiential study abroad programs, where students can immerse themselves in research or global health field experiences. Students can review the Biochemistry Major Advising Page (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/biochemistry/>) on the International Academic Programs website for information on these and other programs, as well as requirements that can typically be fulfilled abroad and things to consider when fitting study abroad into an academic plan.
- Students are encouraged to get involved in research, whether in the biochemistry department or through other life science or chemistry-related departments. Research can be performed for either course credit or pay, depending on the opportunity. The Biochemistry website ([https://biochem.wisc.edu/undergraduate\\_program/research-opportunities-undergraduate-program/](https://biochem.wisc.edu/undergraduate_program/research-opportunities-undergraduate-program/)) and the advisors can provide more information on finding research opportunities. Summer funding awards for research are available through the department.

## COLLEGE OF LETTERS & SCIENCE HONORS IN THE LIBERAL ARTS

The College of Letters & Science Honors Program seeks to provide students with a small, liberal arts college experience within this large university. The Honors Program is home to more than 1,200 motivated, curious and high-achieving students, all pursuing one of three degree tracks: Honors in the Liberal Arts, Honors in the Major, or Comprehensive Honors—the highest undergraduate degree awarded by the college. In addition to an enhanced curriculum that offers small, faculty-led courses, the program also offers academic advising services; grants, scholarships, and awards; and many professional development and co-curricular opportunities. Events, term-specific deadlines, course descriptions for the upcoming semester and much more can be found on the L&S Honors Program website (<http://honors.ls.wisc.edu/>). We welcome inquiries via phone at 608-262-2984. The L&S Honors Program is located in the historic Washburn Observatory at 1401 Observatory Drive in Madison, WI 53706.

## HOW TO GET IN

To become a candidate for the Honors in the Liberal Arts degree, a student must apply directly to the L&S Honors Program. Students may apply at any point in their undergraduate careers provided they meet the eligibility requirements described below.

All students admitted to the university and to the College of Letters & Science are invited to apply to be considered for admission to the Honors Program to pursue the Honors in the Liberal Arts degree. Interested students can apply via an online application form. L&S admitted students receive an invitation message by email that contains the URL to the online application. Admission to the program is competitive, and space is limited.

Continuing and transfer students with a cumulative grade point average of 3.300 or above who are currently enrolled at UW–Madison or who are transferring to UW–Madison from another college or university may apply to the L&S Honors Program at any time. Applications are available from the Honors Program website (<http://honors.ls.wisc.edu/>) and admission decisions are usually made within three weeks of submission of the completed application and supporting materials. While continuing or transfer students having 60 or more credits at the time of application to the Honors Program are eligible to participate in the Honors in the Liberal Arts (HLA) degree track, they are encouraged to consider Honors in the Major (HM) as an option, since they may find it difficult to complete the HLA degree requirements if beginning that program in the junior or senior year.

## REQUIREMENTS

Honors in the Liberal Arts is often the primary focus for most first- and second-year Honors students. It requires students earn Honors credits in a breadth of disciplines and is meant to enrich and enhance a student's academic experience outside of the major. Students who complete this curriculum develop strong skills in communication, critical thinking and complex problem solving, which will serve them well regardless of career path. The specific requirements for the HLA degree are:

- completion of the L&S general degree requirements
- a University GPA of 3.300 or higher at the time of graduation
- completion of at least 24 credits in Honors courses with grades of B or better, of which:
  - at least 15 credits must be in courses with the Honors Only or Accelerated Honors designation
  - 6 of the credits must be courses designated as Humanities
  - 6 of the credits must be courses designated as Social Science
  - 6 of the credits must be courses designated as Biological, Physical, or Natural Science

Honors may be earned in any L&S undergraduate degree (Bachelor of Arts; Bachelor of Science; Bachelor of Science–Applied Mathematics, Engineering, and Physics; Bachelor of Arts–Journalism or Bachelor of Science–Journalism; Bachelor of Landscape Architecture; Bachelor of Music; and Bachelor of Social Work). For students who complete the requirements, Honors will appear on diplomas and transcripts (for example, B.A. with Honors in the Liberal Arts or B.S. with Honors in the Major).

## ADVISING AND CAREERS

The University of Wisconsin–Madison can seem overwhelming because of its size and the complexity of its policies and procedures. Academic advisors help students get (and maintain) their bearings on campus. The L&S Honors Program (<https://honors.ls.wisc.edu/academic-advising/>) has a team of specially trained academic and peer advisors who accompany and support Honors candidates as they pursue diverse educational and

co-curricular experiences compatible with their long-term goals. Advising occurs through a variety of formats including small group workshops, individual appointments, drop-in hours and email. Additional information is available on the Honors Program website (<http://honors.ls.wisc.edu/>).

The L&S Honors Program encourages our students to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S SuccessWorks office to help students leverage the academic skills learned in your major(s) and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, regardless of major or career goals.

## PEOPLE

Honors Program Director: Dr. Jenny Saffran, Chair of L&S Faculty Honors Committee and Professor of Psychology

Associate Director for Admissions and Research: Dr. Matt Kohlstedt

Associate Director for Advising and Curriculum: Christine Evans

Program Administrator: Erin Warner

Academic Advisors: Lisa Blum, Pete Keys

## INDIVIDUAL MAJOR, B.A.

The Individual Major (IM) within the College of Letters & Science is a method of fulfilling the depth requirement for students whose interests bridge existing departments and disciplines in ways not accommodated by an existing major or interdisciplinary program. The individual major must consist of a coherent pattern of courses in more than one department or recognized interdisciplinary program in the College of Letters & Science and must be approved by a faculty committee consisting of faculty from appropriate faculty from the College of Letters & Science.

### **Getting approval to pursue an individual major is never guaranteed.**

Thus, students should discuss alternative majors with their academic advisors and be willing to pursue them. Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 101 Ingraham Hall and set up an individual appointment with the coordinator for the individual major **prior** to starting this process.

## HOW TO GET IN

### ELIGIBILITY

Any undergraduate student working toward an L&S degree with a minimum University (cumulative, on all courses) grade point average of 2.000 may elect to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW-Madison campus are not eligible to pursue an individual major within Letters & Science.*) The individual major **must** receive approval during the second-semester of the sophomore year or first semester of junior year to ensure that they can complete the major within four years. **All students are required to earn**

**at least 30 degree credits after the term in which approval is given.**

A student may complete only one individual major.

## APPLYING FOR AN INDIVIDUAL MAJOR

Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters only. Applications received after that deadline will be reviewed during the following term. Individual major applications are not reviewed during the summer.

The application **must** include all items outlined below:

1. The Individual Major application form;
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major's applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program (**NOTE: students can use a maximum of two (2) courses completed prior to getting the Individual Major approved as part of their list of courses**);
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student's current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

Each individual major application is reviewed by a committee of three faculty members from the College of Letters & Science, each representing a department related to the proposed major. The faculty committee evaluates the proposal for coherence, appropriate breadth and depth, and similarity to existing majors. The committee may approve the proposal as submitted, recommend modifications, reject the proposal altogether, or reject it with an invitation to revise and resubmit in a later semester. **The committee's decision is final. Committee approval is necessary for the student to declare the individual major.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced work Complete at least 60 credits at the intermediate or advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR DEVELOPING AN INDIVIDUAL MAJOR

Any undergraduate student working toward completing an undergraduate degree in the College of Letters & Science with a minimum University GPA of 2.000 may apply to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW-Madison campus are not eligible to pursue an Individual Major within Letters & Science.*) This major must receive approval during the second-term of the sophomore/second year or first term of junior/third year. **Students in the individual major are required to earn at least 30 degree credits after the term in which approval is given.** A student may complete only one individual major.

**Developing an Individual Major.** The student takes primary responsibility for developing an individual major proposal. A well-written proposal must meet the requirements and rigor for a major in the College of Letters & Science; therefore, a proposal must be more than a list of courses that are similar in content area or subject matter. The student proposing an individual major must also demonstrate that the proposed individual major is not currently available as an option in any of the L&S majors or certificate programs.

Students interested in the individual major should consult with the individual major coordinator as part of the process of defining the theme or topic for the individual major. The coordinator will provide information and feedback about the construction of the major and how it might relate to other majors in the college as well.

Once a theme or topic has been identified, the student must find a tenured faculty member in the College of Letters & Science who is willing to serve as the individual major adviser. This designated faculty advisor will:

- assist the student in constructing the individual major proposal by defining the relevant themes, learning objectives, and rationale for the major and by sharpening presentation of the student's individual major proposal;
- assist in the review and selection of courses for the major plan included in the proposal;
- advise the student in course selection after the proposal is approved and, in consultation with the individual major coordinator, track progress toward completion of the major.

As soon as the topic and the advisor (i.e., a tenured faculty member in an L&S academic department) are known, the student should meet with the individual major coordinator within L&S Academic Deans' Services by calling 608-262-0617 to set up a meeting. *The purpose of this meeting is to review the details of individual major requirements and to review procedures.*

**Applying for an Individual Major.** Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters. Applications received after that deadline will be

reviewed during the following term. **Individual major applications are not reviewed during the summer.**

The application must include:

1. the Individual Major application form ([https://lssaa.wiscweb.wisc.edu/wp-content/uploads/sites/144/2018/02/Individual\\_Major\\_General\\_Application\\_Information.pdf](https://lssaa.wiscweb.wisc.edu/wp-content/uploads/sites/144/2018/02/Individual_Major_General_Application_Information.pdf));
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major's applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program (**NOTE: students can use a maximum of two (2) courses completed prior to getting the Individual Major approved as part of their list of courses**);
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student's current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

Each individual major application is reviewed by a committee of three faculty members from the College of Letters & Science, each representing a department related to the proposed major. The faculty committee evaluates the proposal for coherence, appropriate breadth and depth, and similarity to existing majors. The committee may approve the proposal as submitted, recommend modifications, reject the proposal altogether, or reject it with an invitation to revise and resubmit in a later semester. **The committee's decision is final. Committee approval is necessary for the student to declare the individual major.**

## INDIVIDUAL MAJOR WITH HONORS

Students may propose to complete an Individual Major with Honors by appending an Honors in the Major proposal to their regular individual major proposal.

### HONORS IN THE INDIVIDUAL MAJOR: REQUIREMENTS

To earn Honors in the Individual Major, students must:

- Complete 36 credits toward the individual major
- Complete 20 credits, taken for Honors, with individual grades of B or better, toward the individual major, to include a two-semester Senior Honors Thesis for a total of 6 credits.

For additional information about pursuing Honors, see Honors in the Major website (<https://honors.ls.wisc.edu/currentstudents/hmreqs/>).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## FOUR-YEAR PLAN

Due to the nature of the Individual Major (IM), the following Four-Year Plan is meant solely as a guide. Students are expected to start the application process for the IM at the end of their 2nd year or the beginning of their 3rd year due to the application process and the need to have their proposal reviewed by a faculty committee. Once/if a student is approved to pursue an Individual Major, the student will then discuss their Four-Year Plan with their IM advisor. **All undergraduate students in L&S must declare an L&S major by the time they have 86 degree credits (which includes any credits they are currently enrolled in).**

### First Year

Fall	Credits	Spring	Credits
Communication-A (complete during your first year)	3	Ethnic Studies (complete within your first 60 credits)	3
Quantitative Reasoning-A (complete during your first year)	3-4	Foreign Language (if needed)	4
Foreign Language (if required)	4	Elective	3
L&S Breadth	3	L&S Breadth I/A Comp Sci, Math, or Stats (if required for the BS degree)	3 4-5

**13-14**

**17-18**

### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B	3	Communication-B	3
I/A Comp Sci, Math, or Stats (if required for the BS degree)	3-4	INTER-LS 215 (optional)	3
INTER-LS 210 (optional)	1	L&S Breadth	3



L&S Breadth	3 Elective	3
Elective	3 Elective	3
Elective	3	
<b>16-17</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
L&S Breadth		3 Approved IM Major Course	3
Approved IM Major Course		3 Approved IM Major Course	3
Approved IM Major Course		3 L&S Breadth	3
Elective		3 Elective	3
Elective		3 Elective	3
<b>15</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
Approved IM Major Course		3 Approved IM Major Course	3
Approved IM Major Course		3 Approved IM Major Course	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	2-3
<b>15</b>		<b>14-15</b>	

**Total Credits 120-124****ADVISING AND CAREERS**

Students interested in learning more about the L&S Individual Major (IM) should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 101 Ingraham Hall and set up an individual appointment with the coordinator for the Individual Major prior to starting this process.

**The purpose of this meeting is solely to review the details of individual major requirements, go over procedures, and determine whether an individual major is a viable option based on the student's academic interest and the resources available within the College of Letters & Science.**

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**INDIVIDUAL MAJOR, B.S.**

The Individual Major (IM) within the College of Letters & Science is a method of fulfilling the depth requirement for students whose interests bridge existing departments and disciplines in ways not accommodated by an existing major or interdisciplinary program. The individual major must consist of a coherent pattern of courses in more than one department or recognized interdisciplinary program in the College of Letters & Science and must be approved by a faculty committee consisting of faculty from appropriate faculty from the College of Letters & Science.

**Getting approval to pursue an individual major is never guaranteed.**

Thus, students should discuss alternative majors with their academic advisors and be willing to pursue them. Students interested in learning more about the individual major should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 101 Ingraham Hall and set up an individual appointment with the coordinator for the individual major **prior** to starting this process.

**HOW TO GET IN****ELIGIBILITY**

Any undergraduate student working toward an L&S degree with a minimum University (cumulative, on all courses) grade point average of 2.000 may elect to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW-Madison campus are not eligible to pursue an individual major within Letters & Science.*) The individual major **must** receive approval during the second-semester of the sophomore year or first semester of junior year to ensure that they can complete the major within four years. **All students are required to earn at least 30 degree credits after the term in which approval is given.** A student may complete only one individual major.

**APPLYING FOR AN INDIVIDUAL MAJOR**

Applications for the individual major are accepted up to Friday of the fourth week of classes in the fall and spring semesters only. Applications received after that deadline will be reviewed during the following term. Individual major applications are not reviewed during the summer.

The application **must** include all items outlined below:

1. The Individual Major application form;
2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major's applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program (**NOTE: students can use a maximum of two (2) courses completed prior to getting the Individual Major approved as part of their list of courses**);
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student's current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

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## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR DEVELOPING AN INDIVIDUAL MAJOR

Any undergraduate student working toward completing an undergraduate degree in the College of Letters & Science with a minimum University GPA of 2.000 may apply to develop an individual major. (*Students earning degrees in other undergraduate schools and colleges on the UW–Madison campus are not eligible to pursue an Individual Major within Letters & Science.*) This major must receive approval during the second-term of the sophomore/second year or first term of junior/third year. **Students in the individual major are required to earn at least 30 degree credits after the term in which approval is given.** A student may complete only one individual major.

**Developing an Individual Major.** The student takes primary responsibility for developing an individual major proposal. A well-written proposal must meet the requirements and rigor for a major in the College of Letters & Science; therefore, a proposal must be more than a list of courses that are similar in content area or subject matter. The student proposing an individual major must also demonstrate that the proposed individual major is not currently available as an option in any of the L&S majors or certificate programs.

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2. A cover letter from the student to the Faculty Committee on Individual Majors describing the area of interest, explaining why the academic goals of the individual major cannot be achieved through an existing major or combination of majors and certificates, and discussing the individual major's applicability to future goals and plans;
3. A list of courses that will be included in the major along with a narrative explaining how the courses included on the list apply to the proposed individual major program (**NOTE: students can use a maximum of two (2) courses completed prior to getting the Individual Major approved as part of their list of courses**);
4. A letter of recommendation and support for the proposal from the individual major advisor; and
5. The student's current student record (unofficial transcript).

Additional supporting materials may also be included. Students must submit the original completed application with all supporting documentation in an electronic format to the individual major coordinator by the deadline.

Each individual major application is reviewed by a committee of three faculty members from the College of Letters & Science, each representing a department related to the proposed major. The faculty committee evaluates the proposal for coherence, appropriate breadth and depth, and similarity to existing majors. The committee may approve the proposal as submitted, recommend modifications, reject the proposal altogether, or reject it with an invitation to revise and resubmit in a later semester. **The committee's decision is final. Committee approval is necessary for the student to declare the individual major.**

## INDIVIDUAL MAJOR WITH HONORS

Students may propose to complete an Individual Major with Honors by appending an Honors in the Major proposal to their regular individual major proposal.

### HONORS IN THE INDIVIDUAL MAJOR: REQUIREMENTS

To earn Honors in the Individual Major, students must:

- Complete 36 credits toward the individual major
- Complete 20 credits, taken for Honors, with individual grades of B or better, toward the individual major, to include a two-semester Senior Honors Thesis for a total of 6 credits.

For additional information about pursuing Honors, see Honors in the Major website (<https://honors.ls.wisc.edu/currentstudents/hmreqs/>).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

Approved IM Major Course	3 Approved IM Major Course	3
Approved IM Major Course	3 L&S Breadth	3
Elective	3 Elective	3
Elective	3 Elective	3
		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Approved IM Major Course	3	Approved IM Major Course	3
Approved IM Major Course	3	Approved IM Major Course	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	2-3
		<b>15</b>	<b>14-15</b>

**Total Credits 120-124**

## ADVISING AND CAREERS

Students interested in learning more about the L&S Individual Major (IM) should contact L&S Undergraduate Academic Deans' Services at 608-262-0617 in 101 Ingraham Hall and set up an individual appointment with the coordinator for the Individual Major prior to starting this process.

***The purpose of this meeting is solely to review the details of individual major requirements, go over procedures, and determine whether an individual major is a viable option based on the student's academic interest and the resources available within the College of Letters & Science.***

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)

## FOUR-YEAR PLAN

Due to the nature of the Individual Major (IM), the following Four-Year Plan is meant solely as a guide. Students are expected to start the application process for the IM at the end of their 2nd year or the beginning of their 3rd year due to the application process and the need to have their proposal reviewed by a faculty committee. Once/if a student is approved to pursue an Individual Major, the student will then discuss their Four-Year Plan with their IM advisor. **All undergraduate students in L&S must declare an L&S major by the time they have 86 degree credits (which includes any credits they are currently enrolled in).**

### First Year

Fall	Credits	Spring	Credits
Communication-A (complete during your first year)	3	Ethnic Studies (complete within your first 60 credits)	3
Quantitative Reasoning-A (complete during your first year)	3-4	Foreign Language (if needed)	4
Foreign Language (if required)	4	Elective	3
L&S Breadth	3	L&S Breadth	3
		I/A Comp Sci, Math, or Stats (if required for the BS degree)	4-5
		<b>13-14</b>	<b>17-18</b>

### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning-B	3	Communication-B	3
I/A Comp Sci, Math, or Stats (if required for the BS degree)	3-4	INTER-LS 215 (optional)	3
INTER-LS 210 (optional)	1	L&S Breadth	3
L&S Breadth	3	Elective	3
Elective	3	Elective	3
Elective	3		
		<b>16-17</b>	<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
L&S Breadth	3	Approved IM Major Course	3

- INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## MICROBIOLOGY, B.A. (L&S)

**Admissions to the Microbiology [B.A. or B.S. (L&S)] has been suspended as of fall 2023, and the program will be discontinued as of fall 2027. Students interested in Microbiology can contact the Microbiology major advisors ([academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu)) to discuss the College of Agricultural and Life Sciences Microbiology major. For other questions, please contact CALS Academic Affairs ([academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu)).**

Microbiology, the study of microorganisms, helps us understand our world and solve major problems. Microorganisms, or microbes, were the first life forms on earth and influence our lives and our planet in innumerable ways. The field of microbiology is constantly expanding as we learn more about the role of microbes in infectious disease, environmental remediation, bioenergy, food safety, antibiotic resistance, biotechnology, and much more. Communities of microbes (or "microbiomes") are critically important in human health, global warming, agricultural yield, criminal justice, economic development, and other issues of national concern.

The **microbiology major**, offered by the Department of Bacteriology, is a rigorous path of study, providing a curriculum packed with deep knowledge on broad aspects of microbiology and emphasizing modern laboratory skills. The core courses focus on the diversity, genetics, biochemistry, and physiology of microorganisms. A variety of elective courses provide the opportunity to study environmental microbiology, food microbiology, microbial pathogenesis, immunology, virology, microbiomes, and microbial biotechnology, as well as advanced topics in microbial genetics and physiology. In the instructional laboratory courses, students learn beginning through advanced laboratory techniques—gaining the type of hands-on experiences with modern equipment that employers and graduate schools seek. Additionally, students can conduct mentored and independent research projects in faculty laboratories.

The bachelor's degree provides a strong background in the biological sciences for students planning to enter medical, dental, veterinary or other professional schools, as well as those planning graduate studies in any branch of microbiology or other biological sciences such as biochemistry, pathology, and molecular or cell biology.

Students who end their training with a bachelor's degree are well-prepared for a variety of career opportunities, including laboratory positions in pharmaceutical firms, biotechnology firms, university laboratories, and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process as well as training in microbiology allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

## HOW TO GET IN

Admissions to the Microbiology [B.A. or B.S. (L&S)] has been suspended as of fall 2023, and the program will be discontinued as of fall 2027. Students interested in Microbiology can contact the microbiology major

advisors ([biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu)) to discuss the College of Agricultural and Life Sciences Microbiology major. For other questions, please contact CALS Academic Affairs ([academicaffairs@cals.wisc.edu](mailto:academicaffairs@cals.wisc.edu)).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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- L&S Breadth
- 12 credits of Humanities, which must include 6 credits of literature; and
  - 12 credits of Social Science; and
  - 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW-Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Mathematics</b>		
Complete one of the following:		5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
<b>Statistics</b>		
Complete one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry</b>		
Complete one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
<b>Organic Chemistry</b>		
Complete ALL of the following:		
CHEM 343	Organic Chemistry I	3

CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

### Biology Foundation

Complete one of the following:		10-13
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Principles of Physiology	
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	

### Physics

Complete one of the following:		8-10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	

### Biochemistry

Complete one of the following:		3-6
BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	

### Microbiology Courses

#### Microbiology Core (all required):

Except where noted, all Microbiology Core courses are offered every fall and spring semester.

MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology (FALL ONLY)	2

#### Microbiology Capstone (required):

MICROBIO 551	Capstone Research Project in Microbiology (SPRING ONLY)	2
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#### Microbiology Electives

Complete at least 6 credits; at least 3 credits must come from Set A. Not all elective courses are offered every semester.

Set A: 3-6

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory
MICROBIO/ FOOD SCI 325	Food Microbiology
MICROBIO 330	Host-Parasite Interactions
MICROBIO/ AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans
MICROBIO 345	Introduction to Disease Biology
MICROBIO/ SOIL SCI 425	Environmental Microbiology
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)
MICROBIO 607	Advanced Microbial Genetics
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology
MICROBIO 657	Bioinformatics for Microbiologists
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution

Set B: 0-3

BIOCHEM 570	Computational Modeling of Biological Systems
BIOCHEM/M M & I 575	Biology of Viruses
BIOCHEM 601	Protein and Enzyme Structure and Function
BOTANY 330	Algae
BOTANY/PL PATH 332	Fungi
BOTANY/ ENTOM/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects
CHEM 565	Biophysical Chemistry
COMP SCI/ B M I 576	Introduction to Bioinformatics
F&W ECOL/SURG SCI 548	Diseases of Wildlife
FOOD SCI 550	Fermented Foods and Beverages
M M & I 301	Pathogenic Bacteriology
M M & I 341	Immunology
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology
M M & I 554	Emerging Infectious Diseases and Bioterrorism
M M & I/POP HLTH 603	Clinical and Public Health Microbiology
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses

PATH-BIO/  
M M & I 528

Immunology

PL PATH 622

Plant-Bacterial Interactions

PL PATH/  
BOTANY/  
GENETICS/  
M M & I 655

Biology and Genetics of Fungi

**Total Credits**

**64-88**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MICROBIO courses and courses approved for the major
- 2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>
- 15 credits of MICROBIO or courses counting toward the major, taken on campus

1

MICROBIO 300 through 699 count as upper level in the major, excluding MICROBIO 303 and MICROBIO 304. Intermediate- and advanced-level courses outside of MICROBIO that count for the major are also considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Microbiology Major in consultation with the Microbiology undergraduate advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Microbiology, students must satisfy both the requirements for the major (above) and the following requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all courses accepted in the major
- MICROBIO 681 and MICROBIO 682 for a total of 6 credits
- 9 credits of Honors course work (with grade B or better) from:

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
PATH-BIO/ M M & I 528	Immunology	3
MICROBIO 607	Advanced Microbial Genetics	3
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
PL PATH 622	Plant-Bacterial Interactions	2-3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2

ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology.
2. Apply the scientific method to questions. Formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
3. Demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving.
4. Access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
5. Learn about and demonstrate personal and professional ethics.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

## SAMPLE MICROBIOLOGY FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits
General Chemistry	4-5	General Chem or Electives	5
Math	3	Math	3-5
Communication A	3	Foreign Language (if needed)	4
Foreign Language (if needed)	4	Literature Breadth	3
<b>15</b>		<b>15</b>	

### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 344	2
Math	3-5	CHEM 345	3
Intro Biology, Semester 1	5	Intro Biology, Semester 2	5
Ethnic Studies/Social Science Breadth	3	Social Science Breadth	3
		Literature Breadth	3
<b>16</b>		<b>16</b>	

### Junior

Fall	Credits	Spring	Credits
General Physics, Semester 1	4-5	General Physics, Semester 2	4-5
MICROBIO 303	3	MICROBIO 470	3
MICROBIO 304	2	BIOCHEM 501	3
MICROBIO 305	1	Research	1-3
Research	1-3	Social Science Breadth	3
Humanities Breadth	3		
<b>15</b>		<b>15</b>	

### Senior

Fall	Credits	Spring	Credits
MICROBIO 526	3	MICROBIO 450	3
MICROBIO 527	2	MICROBIO 551	2
Microbiology Elective-Set A	3	Microbiology Elective-Set B	3
Research	1-4	Research	1-4
Social Science Breadth	3	Humanities Breadth	3
<b>14</b>		<b>14</b>	

**Total Credits 120**

## ADVISING AND CAREERS

Current UW-Madison students should use Starfish to schedule an appointment with an advisor in the Biochemistry & Microbiology Undergraduate Advising Hub (<http://biochemmicrobio.wisc.edu/>).

Prospective / future UW-Madison students should send an email to the Biochemistry & Microbiology Undergraduate Advising Hub ([biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu)) to set up an appointment, which can be conducted in person or via phone call.



Read about and explore possible microbiology careers at the American Society for Microbiology (<https://www.asm.org/Careers/Career-Planning/>) website.

Learn more about health-related careers through the ExploreHealthCareers.org (<https://explorehealthcareers.org/>) website.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### Research Faculty

Daniel Amador-Noguez  
 Karthik Anantharaman  
 Jean-Michel Ané  
 Briana Burton  
 Kerri Coon  
 Cameron R. Currie  
 Timothy J. Donohue  
 Katrina T. Forest (Chair)  
 Richard L. Gourse (Emeritus)  
 David Hershey  
 Betül Kaçar  
 Charles W. Kaspar  
 Erica L-W Majumder  
 Katherine D. McMahon  
 Federico E. Rey  
 Garret Suen

Michael G. Thomas  
 Jade Wang  
 Karen M. Wassarman  
 Jae-Hyuk Yu

### Teaching Faculty

Melissa Christopherson  
 Timothy D. Paustian  
 Jon T. Roll  
 Michelle R. Rondon  
 Betty Slinger

### Academic Advisors

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)

For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## MICROBIOLOGY, B.S. (L&S)

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pharmaceutical firms, biotechnology firms, university laboratories, and government laboratories. They also work as specialists in industrial quality testing and control, and as regulatory workers in government agencies and public health laboratories. Exposure to the scientific process as well as training in microbiology allows microbiology graduates to enter fields as diverse as business, technical service, sales, and technical writing.

## HOW TO GET IN

Admissions to the Microbiology [B.A. or B.S. (L&S)] has been suspended as of fall 2023, and the program will be discontinued as of fall 2027. Students interested in Microbiology can contact the microbiology major advisors (biochemmicrobio-advisor@wisc.edu) to discuss the College of Agricultural and Life Sciences Microbiology major. For other questions, please contact CALS Academic Affairs (academicaffairs@cals.wisc.edu).

## REQUIREMENTS

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

#### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

**General Education**

- Breadth-Humanities/Literature/Arts: 6 credits
- Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth-Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Mathematics</b>		
Complete one of the following:		5-10
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	
<b>Statistics</b>		
Complete one of the following:		3
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>General Chemistry</b>		
Complete one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
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**Organic Chemistry**

Complete ALL of the following:

CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3

**Biology Foundation**

Complete one of the following: 10-13

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384 & BIOCORE 485	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory and Principles of Physiology	
ZOOLOGY/ BIOLOGY 101 & ZOOLOGY/ BIOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	

**Physics**

Complete one of the following: 8-10

PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	

**Biochemistry**

Complete one of the following: 3-6

BIOCHEM 501	Introduction to Biochemistry	
BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	

**Microbiology Courses***Microbiology Core (all required):*

Except where noted, all Microbiology Core courses are offered every fall and spring semester.

MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
MICROBIO 527	Advanced Laboratory Techniques in Microbiology (FALL ONLY)	2

*Microbiology Capstone (required):*

MICROBIO 551	Capstone Research Project in Microbiology (SPRING ONLY)	2
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*Microbiology Electives*

Complete at least 6 credits; at least 3 credits must come from Set A. Not all elective courses are offered every semester.

Set A: 3-6

MICROBIO/ FOOD SCI 324	Food Microbiology Laboratory	
MICROBIO/ FOOD SCI 325	Food Microbiology	
MICROBIO 330	Host-Parasite Interactions	
MICROBIO/ AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	
MICROBIO 345	Introduction to Disease Biology	
MICROBIO/ SOIL SCI 425	Environmental Microbiology	
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	
MICROBIO/ ONCOLOGY 545	Topics in Biotechnology (topics vary by semester)	
MICROBIO 607	Advanced Microbial Genetics	
MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	
MICROBIO 657	Bioinformatics for Microbiologists	
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	

Set B: 0-3

BIOCHEM 570	Computational Modeling of Biological Systems	
BIOCHEM/M M & I 575	Biology of Viruses	
BIOCHEM 601	Protein and Enzyme Structure and Function	
BOTANY 330	Algae	
BOTANY/PL PATH 332	Fungi	
BOTANY/ ENTOM/PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	
CHEM 565	Biophysical Chemistry	
COMP SCI/ B M I 576	Introduction to Bioinformatics	
F&W ECOL/SURG SCI 548	Diseases of Wildlife	
FOOD SCI 550	Fermented Foods and Beverages	
M M & I 301	Pathogenic Bacteriology	
M M & I 341	Immunology	
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	
M M & I 554	Emerging Infectious Diseases and Bioterrorism	

M M & I/POP HLTH 603	Clinical and Public Health Microbiology
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses
PATH-BIO/ M M & I 528	Immunology
PL PATH 622	Plant-Bacterial Interactions
PL PATH/ BOTANY/ GENETICS/ M M & I 655	Biology and Genetics of Fungi

**Total Credits****64-88**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MICROBIO courses and courses approved for the major
- 2.000 GPA on 15 upper-level major credits, in residence<sup>1</sup>
- 15 credits of MICROBIO or courses counting toward the major, taken on campus

**1**

MICROBIO 300 through 699 count as upper level in the major, excluding MICROBIO 303 and MICROBIO 304. Intermediate- and advanced-level courses outside of MICROBIO that count for the major are also considered upper level.

## HONORS IN THE MAJOR

Students may declare Honors in the Microbiology Major in consultation with the Microbiology undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major in Microbiology, students must satisfy both the requirements for the major (above) and the following requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all courses accepted in the major
- MICROBIO 681 and MICROBIO 682 for a total of 6 credits
- 9 credits of Honors course work (with grade B or better) from:

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 330	Host-Parasite Interactions	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO 526	Physiology of Microorganisms	3
PATH-BIO/ M M & I 528	Immunology	3
MICROBIO 607	Advanced Microbial Genetics	3

MICROBIO/ BIOCHEM/ GENETICS 612	Prokaryotic Molecular Biology	3
PL PATH 622	Plant-Bacterial Interactions	2-3
MICROBIO 632	Industrial Microbiology/ Biotechnology	2
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop a fundamental understanding of the principles of microbiology and the necessary skills for a professional career in microbiology.
2. Apply the scientific method to questions. Formulate a hypothesis, gather data, and analyze that data to assess the degree to which their work supports the hypothesis.
3. Demonstrate proficiency in the techniques used in microbiology and an ability to critically analyze data and integrate ideas for problem solving.
4. Access the primary and secondary literature and, in combination with their own findings, effectively communicate their ideas both orally and in written form.
5. Learn about and demonstrate personal and professional ethics.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in

athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

## SAMPLE MICROBIOLOGY FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits
General Chemistry	4-5	General Chem or Electives	5
Math	3	Math	3-5
Communication A	3	Foreign Language (if needed)	4
Foreign Language (if needed)	4	Literature Breadth	3
<b>15</b>		<b>15</b>	

### Sophomore

Fall	Credits	Spring	Credits
CHEM 343	3	CHEM 344	2
Math	3-5	CHEM 345	3
Intro Biology, Semester 1	5	Intro Biology, Semester 2	5
Ethnic Studies/Social Science Breadth	3	Social Science Breadth	3
		Literature Breadth	3
<b>16</b>		<b>16</b>	

### Junior

Fall	Credits	Spring	Credits
General Physics, Semester 1	4-5	General Physics, Semester 2	4-5
MICROBIO 303	3	MICROBIO 470	3
MICROBIO 304	2	BIOCHEM 501	3
MICROBIO 305	1	Research	1-3
Research	1-3	Social Science Breadth	3
Humanities Breadth	3		
<b>15</b>		<b>15</b>	

### Senior

Fall	Credits	Spring	Credits
MICROBIO 526	3	MICROBIO 450	3
MICROBIO 527	2	MICROBIO 551	2
Microbiology Elective-Set A	3	Microbiology Elective-Set B	3
Research	1-4	Research	1-4
Social Science Breadth	3	Humanities Breadth	3
<b>14</b>		<b>14</b>	

**Total Credits 120**

## ADVISING AND CAREERS

Current UW-Madison students should use Starfish to schedule an appointment with an advisor in the Biochemistry & Microbiology Undergraduate Advising Hub (<http://biochemmicrobio.wisc.edu/>).

Prospective / future UW-Madison students should send an email to the Biochemistry & Microbiology Undergraduate Advising Hub

([biochemmicrobio-advisor@wisc.edu](mailto:biochemmicrobio-advisor@wisc.edu)) to set up an appointment, which can be conducted in person or via phone call.

Read about and explore possible microbiology careers at the American Society for Microbiology (<https://www.asm.org/Careers/Career-Planning/>) website.

Learn more about health-related careers through the ExploreHealthCareers.org (<https://explorehealthcareers.org/>) website.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### Research Faculty

Daniel Amador-Noguez  
 Karthik Anantharaman  
 Jean-Michel Ané  
 Briana Burton  
 Kerri Coon  
 Cameron R. Currie  
 Timothy J. Donohue  
 Katrina T. Forest (Chair)  
 Richard L. Gourse (Emeritus)  
 David Hershey  
 Betül Kaçar  
 Charles W. Kaspar  
 Erica L-W Majumder

Katherine D. McMahon  
 Federico E. Rey  
 Garret Suen  
 Michael G. Thomas  
 Jade Wang  
 Karen M. Wassarman  
 Jae-Hyuk Yu

### Teaching Faculty

Melissa Christopherson  
 Timothy D. Paustian  
 Jon T. Roll  
 Michelle R. Rondon  
 Betty Slinger

### Academic Advisors

Biochemistry & Microbiology Undergraduate Advising Hub (<https://biochemmicrobio.wisc.edu/advising/>)

For more information, see the Department of Bacteriology directory (<https://bact.wisc.edu/people.php>).

## MATHEMATICS

Mathematics bridges the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research. Still an expanding subject, mathematics is a part of more new and challenging frontiers than at any time in its long history—with many new fields, from data science to quantum computing, requiring new techniques and inspiring ideas for exploration.

Graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals, interests, and careers.

Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 1150).

## DEGREES/MAJORS/CERTIFICATES

- Applied Mathematics, Engineering, and Physics, B.S. AMEP (p. 1150)
- Mathematics, B.A. (p. 1155)
- Mathematics, B.S. (p. 1176)
- Mathematics, Certificate (p. 1197)

## PEOPLE

Please visit the Math Department website (<https://math.wisc.edu>) for a complete list of faculty (<https://math.wisc.edu/math-faculty/>) and instructional academic staff (<https://math.wisc.edu/academic-staff/>).

## APPLIED MATHEMATICS, ENGINEERING, AND PHYSICS, B.S. AMEP

This four-year degree program in the interdisciplinary physical sciences offers a strong foundation in related areas of engineering sciences, mathematics, and physics for professional work in the field of industrial research and technology. It also provides a foundation for graduate degree work in applied mathematics, engineering sciences, and physics.

The AMEP program is an excellent choice for the student with broad interests in mathematics, physics, and engineering. AMEP emphasizes an integrated mathematics and physics curriculum and strives to achieve an optimum balance of breadth and depth in the physical sciences within the confines of a four-year degree.

## HOW TO GET IN

### DECLARATION REQUIREMENTS

Because admission into AMEP is internal to UW–Madison, a student must be admitted to UW–Madison or already be a UW–Madison student to join AMEP.

The general expectation for admission to the AMEP program is completion of the introductory calculus and physics sequences with appropriate success. Specifically a student must have

- Completed MATH 221, MATH 222, and MATH 234 with at least a 2.75 GPA.
  - MATH 375 and MATH 376 (together) may be substituted for MATH 234.
- Completed PHYSICS 247, PHYSICS 248, PHYSICS 249 with at least a 2.75 GPA.
  - For alternate Introductory Physics courses, see the full program description.

Students who do not meet the above qualifications (transfer students, freshmen with advanced standings, etc.) may be admitted to the program on a probationary basis. However, such students who do not eventually meet the above admission requirement or maintain a 2.0 GPA in quality of work program requirements in their first term at UW–Madison may be reassigned to a standard BA or BS degree.

Finally, students who have accrued 86 or more credits will be admitted to the AMEP program only if

- the student has above a 2.0 in both the general and upper level quality of work requirement (see the full program requirements),
- the student has fewer than 60 outstanding credits needed to complete then degree.

## DECLARING APPLIED MATHEMATICS, ENGINEERING, AND PHYSICS UNDERGRADUATE DEGREE PROGRAM (AMEP)

Any student who is interested in the AMEP program should meet with a program advisor as soon as possible. The advisor will help the student negotiate pre-AMEP status and eventually assist in declaration for the program. In general, this should be an AMEP MATH faculty advisor.

Advising information can be found in the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/mathematics/applied-mathematics-engineering-physics-bs-amep/#advisingandcareerstext>) tab.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE-APPLIED MATHEMATICS, ENGINEERING, AND PHYSICS (B.S.-AMEP)

Students pursuing a Bachelor of Science–Applied Mathematics, Engineering, and Physics degree in the College of Letters & Science must complete all of the requirements below. The B.S.–AMEP is a special degree program; it is not considered a major. The B.S.–AMEP degree is

not available to students who intend to earn a degree outside the College of Letters & Science.

## BACHELOR OF SCIENCE - AMEP DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language** Complete the second unit of a foreign language.

**Liberal Arts and Science Requirement** Complete a minimum of 20 credits in Liberal Arts and Science (LAS) coursework outside the physical and mathematical sciences, including:

- at least of 12 credits of Humanities and/or Social Science, including at least 6 credits in Humanities and at least 3 credits of Social Science
- a maximum of 8 credits of Biological Science
- additional eligible coursework to reach 20 total credits.

Courses that carry the Physical Science breadth designation, or are listed (or cross-listed) in the MATH or COMP SCI subjects, are not eligible.

**Total Credits** Complete at least 125 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 90th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison

## REQUIREMENTS FOR THE PROGRAM

A total of at least 125 credits with a minimum GPA of 2.000 is required for this degree plan. Of these credits, at least 82 must be devoted to Mathematics, Physics, Engineering, and Chemistry requirements; 20 must be devoted to University General Education requirements; and the balance may be from electives.

Code	Title	Credits
<b>FOUNDATION: Mathematics</b>		<b>13-19</b>

*Single Variable Calculus. Completed with credit for both of the following courses:*

MATH 221	Calculus and Analytic Geometry 1
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MATH 222	Calculus and Analytic Geometry 2
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*Multivariable calculus. Completed with credit for one of the following two options:*

MATH 234	Calculus--Functions of Several Variables
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MATH 375 & MATH 376	Topics in Multi-Variable Calculus and Linear Algebra and Topics in Multi-Variable Calculus and Differential Equations <sup>1</sup>
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FOUNDATION: Physics	11-14
<i>First Introductory course</i>	
PHYSICS 247	A Modern Introduction to Physics
or PHYSICS 207	General Physics
or PHYSICS 201	General Physics
or E M A 202	Dynamics

or M E 240 Dynamics

*Second Introductory course*

PHYSICS 248 A Modern Introduction to Physics  
 or PHYSICS 208 General Physics  
 or PHYSICS 202 General Physics

*Third Introductory course*

PHYSICS 249 A Modern Introduction to Physics  
 or PHYSICS 241 Introduction to Modern Physics  
 or PHYSICS 205 Modern Physics for Engineers  
 or PHYSICS/ Introduction to Solid State Electronics  
 E C E 235

**CHEMISTRY. Completed with credit for one of the following options. 5-9**

CHEM 109 Advanced General Chemistry  
 CHEM 103 General Chemistry I & CHEM 104 and General Chemistry II  
 CHEM 115 Chemical Principles I

**MATHEMATICS. Completed with at least six courses for 18 credits. 18**

*Core: Linear Algebra*

MATH 320 Linear Algebra and Differential Equations<sup>2</sup>  
 or MATH 340 Elementary Matrix and Linear Algebra  
 or MATH 341 Linear Algebra  
 or MATH 375 Topics in Multi-Variable Calculus and Linear Algebra

*Core: Differential Equations*

MATH 320 Linear Algebra and Differential Equations<sup>2</sup>  
 or MATH 319 Techniques in Ordinary Differential Equations  
 or MATH 376 Topics in Multi-Variable Calculus and Differential Equations

*Core: Applied Analysis. Complete both courses.*

MATH 321 Applied Mathematical Analysis  
 MATH 322 Applied Mathematical Analysis

*MATH electives.*<sup>3</sup>

Completed with at least three courses for nine credits.  
 Select from:

MATH 415 Applied Dynamical Systems, Chaos and Modeling  
 MATH 421 The Theory of Single Variable Calculus  
 MATH/STAT 431 Introduction to the Theory of Probability  
 or MATH/ Introduction to Probability and Mathematical  
 STAT 309 Statistics I  
 MATH 443 Applied Linear Algebra  
 MATH/ Numerical Linear Algebra  
 COMP SCI 513  
 MATH/ Numerical Analysis  
 COMP SCI 514  
 MATH 519 Ordinary Differential Equations  
 MATH 521 Analysis I  
 MATH 522 Analysis II

MATH 531 Probability Theory

MATH 561 Differential Geometry

MATH 619 Analysis of Partial Differential Equations

MATH 623 Complex Analysis

MATH 627 Introduction to Fourier Analysis

MATH/ISY E/ Introduction to Stochastic  
 OTM/STAT 632 Processes

**PHYSICS. Completed with at least 5 courses for 15 credits. 15**

*Core Physics. Complete both:*

PHYSICS 311 Mechanics  
 PHYSICS 322 Electromagnetic Fields

*Physics electives:*<sup>4</sup>

Remaining courses/credits from any PHYSICS course numbered 307 and above.

**ENGINEERING**

*21 credits in Engineering courses with the following conditions:*<sup>5</sup> 21

Courses must be numbered 300 or above.

Courses must be distinct from any used to fulfill math and physics requirements above.

**LABORATORY EXPERIENCE. Minimum of three credits selected from the options below.**<sup>6</sup> 0-3

The following course applies as three credits of lab:

E M A 522 Aerodynamics Lab

The following courses apply as two credits of lab each:

PHYSICS 307 Intermediate Laboratory-Mechanics and Modern Physics

PHYSICS 321 Electric Circuits and Electronics

PHYSICS 325 Optics

PHYSICS 407 Advanced Laboratory

PHYSICS 623 Electronic Aids to Measurement

PHYSICS 625 Applied Optics

The following courses apply as one credit of lab each:

E C E 270 Circuits Laboratory I

E M A/M E 307 Mechanics of Materials Lab

**Computational Experience.**<sup>6</sup> 0-3

Select one:

COMP SCI 412 Introduction to Numerical Methods

E P/E M A 471 Intermediate Problem Solving for Engineers

MATH/ Numerical Linear Algebra  
 COMP SCI 513

MATH/ Numerical Analysis  
 COMP SCI 514

**Bachelor of Science General Education Requirements 20**

**Electives to Reach 125 Credits 6-23**

**Total Credits 125**



## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in AMEP program courses.<sup>7</sup>
- Minimum 2.000 GPA and 15 upper-level AMEP program credits, taken in residence.<sup>7,8</sup>
- 15 credits in AMEP program courses, taken on the UW–Madison campus.<sup>7</sup>

## HONORS IN THE MAJOR

Honors in the Major is not available in Applied Mathematics, Engineering, and Physics.

## FOOTNOTES

1

MATH 375 may also be used to fulfill the Linear Algebra requirement below. MATH 376 may be used to fulfill the Differential Equations requirement below.

2

MATH 320 fulfills both the Linear Algebra and Differential Equations requirement. AMEP students are encouraged to consider the honors version of the course which is taught by AMEP faculty.

3

A default plan may include MATH 415, MATH/STAT 431, and MATH/COMP SCI 514.

4

A default plan might include courses selected from PHYSICS 307, PHYSICS 321, PHYSICS 325, PHYSICS 415, PHYSICS 448, and PHYSICS 449.

5

Work with an AMEP Engineering advisor to construct a progressive and cohesive sequence of courses. We recommend you begin enrolling in engineering courses at or near the completion of your MATH and PHYSICS core requirements.

6

Course used to fulfill this requirement need not be distinct from courses used to fulfill Mathematics, Physics, and Engineering requirements in AMEP.

7

This includes only those courses which may be used to fulfill Mathematics, Physics, Engineering, Chemistry, Laboratory, and Computational requirements described in the tables above.

8

A course numbered 300 or above is considered upper level in the program.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. State, explain and apply principal theorems and techniques of applied mathematics, including (but not limited to) the subject areas of vector and complex calculus, linear algebra, and differential equations.
2. State, explain and apply theory and methods of classical and modern physics such as mechanics (classical, statistical, quantum), electricity, magnetism, thermodynamics, radiation and atomic physics.
3. Develop strategies to synthesize applied mathematics and physical sciences to address engineering problems, with emphasis on problems of current interest.
4. Design and conduct experiments to explore hypotheses regarding science and/or technology and/or engineering problems, and will use mathematics to help interpret experimental results.
5. Work in multidisciplinary groups of mathematicians, physical scientists, and engineers to formulate and solve STEM problems, which includes the creation and evaluation of models for natural phenomena.
6. Through written and oral presentations, students will communicate technical/scientific ideas and results to experts and non-experts.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
CHEM 109		5 Communication A	3
PHYSICS 247		5 MATH 320	3
MATH 234		4 PHYSICS 248	5
Foreign Language 1		4 Foreign Language 2	4
		<b>18</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 321		3 INTER-LS 210	1
PHYSICS 249		4 PHYSICS 311	3

Humanities Breadth	3 MATH 322	3
Core Math Elective 1	3 Core Math Elective 2	3
Ethnic Studies/Social Science Breadth	3 Humanities Breadth	3
	Biological/Social Science or Humanities	3

**16** **16**

### Third Year

Fall	Credits	Spring	Credits
PHYSICS 322	3	Core Physics 2	4
Core Math Elective 3	3	Core Physics 3	4
Physics Elective 1	4	Computational Experience	3
Lab Experience	2-4	Engineering 1	3
Humanities/Social Science Breadth	3		

**16** **14**

### Fourth Year

Fall	Credits	Spring	Credits
Communication B	3	Engineering courses	9
Engineering Courses	12	Humanities Breadth	3
		Electives	3

**15** **15**

**Total Credits 125**

## ADVISING AND CAREERS

For information about advising for the special Letters & Science degree program, students should refer to AMEP Advising (<https://www.math.wisc.edu/amep/advising/>).

## RECOMMENDED/SUGGESTED ADVANCED COURSES

A number of intermediate and advanced courses in the Mathematics and Physics Departments are recommended by AMEP advisors for use as electives beyond the core math and physics curricula. Other courses may be approved by AMEP faculty advisors.

Code	Title	Credits
<b>Mathematics</b>		
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH/STAT 431	Introduction to the Theory of Probability	
MATH/COMP SCI 513	Numerical Linear Algebra (computing elective)	
MATH/COMP SCI 514	Numerical Analysis (computing elective)	
MATH 561	Differential Geometry	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	
<b>Physics</b>		
PHYSICS 323	Electromagnetic Fields	
PHYSICS 325	Optics	

PHYSICS 407	Advanced Laboratory
PHYSICS 415	Thermal Physics
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics
PHYSICS 531	Introduction to Quantum Mechanics
PHYSICS 551	Solid State Physics

### Chemical and Biological Engineering (CBE)

CBE 250	Process Synthesis
CBE 255	Introduction to Chemical Process Modeling

### Computer Engineering (ECE)

ECE/COMP SCI 352	Digital System Fundamentals
ECE/COMP SCI 354	Machine Organization and Programming

### Engineering Mechanics and Astronautics (EMA) or Mechanical Engineering (ME)

EMA 303	Mechanics of Materials
ME 306	Mechanics of Materials
EMA/ME 307	Mechanics of Materials Lab
EMA 506	Advanced Mechanics of Materials I
EMA 519	Fracture Mechanics

### Electrical Engineering

ECE 210	Introductory Experience in Electrical Engineering
ECE 230	Circuit Analysis
ECE 270	Circuits Laboratory I

### Thermodynamics, Fluids, and Heat Transfer (ME, CBE)

ME 361	Thermodynamics
ME 363	Fluid Dynamics
ME 364	Elementary Heat Transfer
CBE 310	Chemical Process Thermodynamics
CBE 320	Introductory Transport Phenomena
CBE 430	Chemical Kinetics and Reactor Design

### Aerodynamics and Astrodynamics (EMA)

EMA 521	Aerodynamics
EMA 522	Aerodynamics Lab
EMA 523	Flight Dynamics and Control
EMA 542	Advanced Dynamics
EMA/ASTRON 550	Astrodynamics

### Materials Science and Engineering

MS&E 350	Introduction to Materials Science
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### Plasma Physics and Engineering (ECE/NEEP/PHYS cross-listed)

ECE/NEE/PHYSICS 525	Introduction to Plasmas
ECE/NEE/PHYSICS 527	Plasma Confinement and Heating

### Industrial Engineering

ISYE 313	Engineering Economic Analysis
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I SY E 323

Operations Research–Deterministic Modeling

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## MATHEMATICS, B.A.

Mathematics bridges the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research. Still an expanding subject, mathematics is a part of more new and challenging frontiers than at any time in its long history—with many new fields, from data science to quantum computing, requiring new techniques and inspiring ideas for exploration.

Graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and

research. The math major requirements are flexible enough to allow preparation for various goals, interests, and careers.

Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 1150).

## HOW TO GET IN

### DECLARATION

To declare a major in mathematics, a student must have completed the sequence MATH 221, MATH 222, and MATH 234, or the sequence MATH 375 and MATH 376, with a 2.500 GPA or better. Major advisors may waive this requirement for students with alternative coursework and experiences (e.g., transfer students). Students should meet with a math advisor before declaring in order to discuss course selection and major plan. Advising information can be found in the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/mathematics/mathematics-bs/#advisingandcareerstext>) link.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of

Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

The mathematics major requirements include exposure to at least two areas of advanced mathematics. The program is ideal for any student who has a broad interest in mathematics both pure and applied, and functions well as a standalone or complementary program.

The mathematics major requires 7 distinct courses for at least 21 credits as described below. Note that at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: seven courses and at least 21 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320, or MATH 376), and Intro Probability (MATH/STAT 309, MATH 331, or MATH/STAT 431).

**At least seven MATH courses for at least 21 credits are required for the major as follows:**<sup>1</sup>

Code	Title	Credits
<b>Linear Algebra (complete one)</b> <sup>2</sup>		<b>3-5</b>
MATH 341	Linear Algebra	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	

Code	Title	Credits
<b>Analysis, Topology, Algebra (complete two)</b>		<b>6</b>
MATH 521	Analysis I	
MATH 541	Modern Algebra	
MATH 551	Elementary Topology	

Code	Title	Credits
<b>Advanced MATH Elective (complete one)</b>		<b>3</b>
<b>Complete at least one for three credits:</b>		

MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/COMP SCI/ISYE/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 551	Elementary Topology	
MATH 552	Elementary Geometric and Algebraic Topology	
MATH 561	Differential Geometry	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	
MATH/PHILOS 571	Mathematical Logic	
MATH 605	Stochastic Methods for Biology	
MATH 607	Topics in Mathematics Study Abroad	
MATH/B M I/BIOCHEM/BMOLCHEM 609	Mathematical Methods for Systems Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 621	Introduction to Manifolds	
MATH 623	Complex Analysis	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	

MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
MATH/E C E 641	Introduction to Error-Correcting Codes
MATH 681	Senior Honors Thesis
MATH 682	Senior Honors Thesis
MATH 691	Undergraduate Thesis
MATH 692	Undergraduate Thesis
MATH 698	Directed Study
MATH 699	Directed Study

### Additional MATH Elective to achieve 7 courses and 21 credits in the major

Code	Title	Credits
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#### Choose from the following:

9

MATH/STAT 309	Introduction to Probability and Mathematical Statistics I <sup>3</sup>
or MATH 331	Introductory Probability
or MATH/STAT 431	Introduction to the Theory of Probability
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II
MATH 319	Techniques in Ordinary Differential Equations <sup>4</sup>
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations
MATH 321	Applied Mathematical Analysis
MATH 322	Applied Mathematical Analysis
MATH 390	Undergraduate Research with Madison Experimental Mathematics Lab
MATH 407	Topics in Mathematics Study Abroad
MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH 421	The Theory of Single Variable Calculus
MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
MATH/COMP SCI/ E C E 435	Introduction to Cryptography
MATH 441	Introduction to Modern Algebra
MATH 443	Applied Linear Algebra
MATH 461	College Geometry I
MATH 467	Introduction to Number Theory
MATH/HIST SCI 473	History of Mathematics
MATH/COMP SCI/ STAT 475	Introduction to Combinatorics
MATH 490	Undergraduate Seminar
MATH 491	Topics in Undergraduate Mathematics
MATH/COMP SCI 513	Numerical Linear Algebra

MATH/COMP SCI 514	Numerical Analysis
MATH 519	Ordinary Differential Equations
MATH 521	Analysis I
MATH 522	Analysis II
MATH/COMP SCI/ I SY E/ STAT 525	Linear Optimization
MATH 531	Probability Theory
MATH 535	Mathematical Methods in Data Science
MATH 540	Linear Algebra II
MATH 541	Modern Algebra
MATH 542	Modern Algebra
MATH 551	Elementary Topology
MATH 552	Elementary Geometric and Algebraic Topology
MATH 561	Differential Geometry
MATH 567	Modern Number Theory
MATH 570	Fundamentals of Set Theory
MATH/PHILOS 571	Mathematical Logic
MATH 605	Stochastic Methods for Biology
MATH 607	Topics in Mathematics Study Abroad
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology
MATH 619	Analysis of Partial Differential Equations
MATH 621	Introduction to Manifolds
MATH 623	Complex Analysis
MATH 627	Introduction to Fourier Analysis
MATH 629	Introduction to Measure and Integration
MATH/ I SY E/ OTM/ STAT 632	Introduction to Stochastic Processes
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
MATH/E C E 641	Introduction to Error-Correcting Codes
MATH 681	Senior Honors Thesis
MATH 682	Senior Honors Thesis
MATH 691	Undergraduate Thesis
MATH 692	Undergraduate Thesis
MATH 698	Directed Study
MATH 699	Directed Study

#### Total Credits

9

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MATH and major courses.
- 2.000 GPA on 15 upper-level major credits, taken in residence.<sup>5</sup>
- 15 credits in MATH, taken on the UW-Madison campus.

## NAMED OPTIONS

View as listView as grid

- MATHEMATICS: MATHEMATICS FOR DATA SCIENCE (P. 1161)
- MATHEMATICS: MATHEMATICS FOR ECONOMICS AND FINANCE (P. 1163)
- MATHEMATICS: MATHEMATICS FOR PROGRAMMING AND COMPUTING (P. 1166)
- MATHEMATICS: MATHEMATICS FOR SECONDARY EDUCATION (P. 1168)
- MATHEMATICS: MATHEMATICS FOR STATISTICAL ANALYSIS AND RISK ASSESSMENT (P. 1170)
- MATHEMATICS: MATHEMATICS FOR THE PHYSICAL AND BIOLOGICAL SCIENCES (P. 1172)

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Mathematics Honors advisor (<https://www.math.wisc.edu/undergraduate/advising/>); this should be done by the start of the junior year. Honors in the major is not available in any Named Option program.

### HONORS IN THE MATHEMATICS MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the mathematics major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all MATH courses, and all courses accepted in the major
- Complete the following courses, with individual grades of B or better:

Code	Title	Credits
MATH 521 & MATH 522	Analysis I and Analysis II (Taken for Honors) <sup>6</sup>	
MATH 541 & MATH 542	Modern Algebra and Modern Algebra (Taken for Honors) <sup>6</sup>	

Select at least two more courses from MATH 500 through MATH/E C E 641. These course must be taken for honors. The following will usually be one of the courses:<sup>7</sup>

MATH 551	Elementary Topology
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Select one of these Capstone projects:

MATH 681 & MATH 682	Senior Honors Thesis and Senior Honors Thesis (For a total of 6 credits)
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or

A sequence of two upper-level mathematics courses deemed acceptable by the Mathematics Honors advisor<sup>7</sup>

## FOOTNOTES

1

A course may only apply once toward the courses/credits required for the major. Thus, a course used to meet the Analysis, Topology and Algebra requirement may *not* also be used to meet the requirement for MATH 500-699 requirement and a course used to meet the MATH 500-699 requirement may *not* also be used in the Additional Math requirement.

2

Only one of these courses will be used to fulfill minimum course/credit requirements for the major: MATH 320, MATH 340, MATH 341, MATH 375

3

At most one course in Introductory Probability may be used to fulfill the course/credit requirements for the major: MATH/STAT 309 and MATH/STAT 431.

4

At most one course in Elementary Differential Equations may be used to fulfill the course/credit requirements for the major: MATH 319, MATH 320, MATH 376.

5

MATH courses numbered 307-699 are considered upper level in the major.

6

At least one of the two sequences (MATH 521-MATH 522 or MATH 541-MATH 542) must be completed prior to enrolling in the Capstone project.

7

Chosen in consultation with the Mathematics Honors advisor.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. State, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas including at least one area of advanced undergraduate mathematics.

- Construct and evaluate mathematical proofs and arguments.
- Acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
- Use mathematics to model and analyze phenomena in other disciplines.
- Write, explain, and present mathematics to both experts and non-experts.

Elective	3 Elective	3
		<b>15</b>
		<b>15</b>

**Total Credits 120****1**

Math majors will naturally complete Quantitative Reasoning requirements with the introductory calculus courses required to declare the major.

**2**

Declaration of the Mathematics major requires a 2.500 cumulative GPA across the introductory calculus sequence. Students that are unable to establish a GPA for any courses in the introductory calculus sequence are encouraged to speak with a math major advisor as soon as possible.

**3**

An intermediate level math course is any numbered above 306 excluding MATH 320, MATH 340, or MATH 341, or MATH/CURRIC 471.

**4**

An advanced level MATH course is any numbered above 500.

**THREE-YEAR PLAN****SAMPLE THREE-YEAR PLAN**

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

**DEPARTMENTAL EXPECTATIONS**

Historically, students who have successfully complete a three year undergraduate degree with a major in Mathematics have the following qualifications: a minimum of 29 advanced standing credits, which include completion of the following with either course credit or via placement examination:

- MATH 221 and MATH 222
- Communication Part A
- 3-4 units of foreign language

Therefore the plan below assumes these requirements, but none other. When considering the plan below, students should note the following:

- Advanced standing credits may satisfy Ethnic Studies, Communication Part B, and/or Letters & Science Breadth degree requirements which are listed in the plan. In this case, students should adjust their plan by reorganizing the remaining degree requirements using the following priorities: 1) Ethnic Studies and Communication Part B (obligatory in the first year); 2) Physical, Biological, and Social Science Breadth (which may be prerequisites for more advanced electives); 3) Humanities and Literature. Remaining schedule space should be considered electives.

**FOUR-YEAR PLAN****SAMPLE FOUR-YEAR PLAN**

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**Mathematics Major - Bachelor of Arts/Science Degree****Freshman**

Fall	Credits	Spring	Credits
MATH 221 <sup>1,2</sup>		5 MATH 222 <sup>2</sup>	4
Communication A		3 Ethnic Studies	3
Foreign Language (if needed)		4 Foreign Language (if needed)	4
Literature Breadth		3 Literature Breadth	3
		<b>15</b>	<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234		4 MATH 341	3
Communication B		3 Intermediate MATH <sup>3</sup>	3
Humanities Breadth		3 Humanities Breadth	3
Physical Science Breadth		3 Physical Sciences Breadth	3
Elective		3 Elective	3
		<b>16</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
Intermediate MATH <sup>3</sup>		3 Intermediate MATH <sup>3</sup>	3
Advanced MATH <sup>4</sup>		3 Advanced MATH <sup>4</sup>	3
Social Sciences Breadth		3 Social Sciences Breadth	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
Advanced MATH <sup>4</sup>		3 Social Sciences Breadth	3
Social Science Breadth		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3

- At least 26 of the non-MATH credits must be at the Intermediate or Advanced level.
- Consider using the elective space in the plan as follows: additional major or certificate, career readiness, graduate school preparation, and other personal interests.

**First Year**

Fall	Credits	Spring	Credits
MATH 234	4	MATH Linear Algebra	3
Ethnic Studies	3	Intermediate MATH	3
Communication B	3	Physical Science Breadth	3
Biological Science Breadth	3	Biological Science Breadth	3
Physical Science Breadth	3	Foreign Language (if needed for the B.A.) or Elective	3
<b>16</b>		<b>15</b>	

**Second Year**

Fall	Credits	Spring	Credits
Intermediate MATH	3	Advanced MATH	3
Advanced MATH	3	Intermediate MATH	3
Literature Breadth	3	Literature Breadth	3
Social Science Breadth	3	Social Science Breadth	3
Elective (Intermediate or Advanced level)	3	Elective (Intermediate or Advanced level)	3
<b>15</b>		<b>15</b>	

**Third Year**

Fall	Credits	Spring	Credits
Advanced MATH	3	Humanities Breadth (Intermediate or Advanced level)	3
Social Science Breadth	3	Social Science Breadth (Intermediate or Advanced level)	3
Humanities Breadth	3	Elective (Intermediate or Advanced level)	9
Elective (Intermediate or Advanced level)	6		
<b>15</b>		<b>15</b>	

**Total Credits 91****ADVISING AND CAREERS****ADVISING**

Students who are interested in the math major should visit a faculty advisor. Information about current advisor availability is on the Math advising page (<https://www.math.wisc.edu/undergraduate/advising/>).

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement/>) of the department.

**TRANSITION COURSES**

All majors are required to complete at least one of the following. It is suggested that majors (and those interested in the major) complete such a course as soon in their academic career as possible.

Code	Title	Credits
MATH 341	Linear Algebra	
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	

**GRADUATE STUDY**

Students preparing for graduate work in mathematics should take the following courses:

Code	Title	Credits
MATH 341	Linear Algebra	3
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551	Elementary Topology	3
or MATH 561	Differential Geometry	

Select at least two other courses at the 500 level or higher

Students who plan to enter a mathematics Ph.D. program should acquire a reading knowledge of at least one foreign language as early as possible. For mathematics study, the most useful languages are French, German, and Russian.

**CAREERS**

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.



In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Math Department website (<https://math.wisc.edu>) for a complete list of faculty (<https://math.wisc.edu/math-faculty/>) and instructional academic staff (<https://math.wisc.edu/academic-staff/>).

## RESOURCES AND SCHOLARSHIPS

The Department of Mathematics offers scholarships, awards, and prizes (<https://math.wisc.edu/undergraduate/awards/>) to declared math majors. The majority of award opportunities are available in the fall semester with applications typically open midway through the semester. Spring awards are smaller in number and also open midway through the semester.

Awards vary in scope and criteria. Some awards are open to students who exhibit financial need, while others are granted to students based on academic merit. Other awards are related to undergraduate research. Awards may be open to specific student populations, such as:

- Underrepresented students of color
- Self-identified women
- Graduating majors
- Early-career majors

Declared math majors are encouraged to apply for any awards in which they meet the qualifications.

# MATHEMATICS: MATHEMATICS FOR DATA SCIENCE

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics for Data Science program requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count.

Finally, at most only one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: requirements: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)</b>		
<i>Linear Algebra</i>		3-5
MATH 340	Elementary Matrix and Linear Algebra	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 421	The Theory of Single Variable Calculus	
MATH 341	Linear Algebra	
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Probability (complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 531	Probability Theory	

<i>Numerical and optimization methods (complete at least one)</i>	3
MATH/ COMP SCI 513	Numerical Linear Algebra
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization
MATH/ COMP SCI 514	Numerical Analysis
MATH 443	Applied Linear Algebra
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
<i>Mathematics of data</i>	3
MATH 535	Mathematical Methods in Data Science
<i>Advanced Electives (complete at least one):</i>	0-3
MATH/ COMP SCI 513	Numerical Linear Algebra
MATH/ COMP SCI 514	Numerical Analysis
MATH 521	Analysis I
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization
MATH 531	Probability Theory
MATH 540	Linear Algebra II
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
<i>Electives to reach required six courses for at least 18 credits in MATH<sup>1</sup></i>	0-6
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
MATH 443	Applied Linear Algebra
MATH/ COMP SCI 513	Numerical Linear Algebra
MATH/ COMP SCI 514	Numerical Analysis
MATH 521	Analysis I
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization
MATH 531	Probability Theory
MATH 540	Linear Algebra II
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
<b>Data Science Requirement (at least four courses for at least 12 credits)<sup>2</sup></b>	<b>12</b>
<i>Data Science Fundamentals (choose one)</i>	
STAT 340	Data Science Modeling II
COMP SCI 320	Data Science Programming II

Remaining courses may be selected from below or from the MATH elective lists above.<sup>3</sup>

COMP SCI/E C E/ I SY E 524	Introduction to Optimization
COMP SCI/ E C E 533	Image Processing
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks
COMP SCI 540	Introduction to Artificial Intelligence
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning
COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI/ B M I 576	Introduction to Bioinformatics
STAT 351	Introductory Nonparametric Statistics
STAT 421	Applied Categorical Data Analysis
STAT/M E 424	Statistical Experimental Design
STAT 433	Data Science with R
STAT 443	Classification and Regression Trees
STAT 453	Introduction to Deep Learning and Generative Models
STAT 456	Applied Multivariate Analysis
STAT 461	Financial Statistics
STAT/ COMP SCI 471	Introduction to Computational Statistics
STAT/B M I 641	Statistical Methods for Clinical Trials
STAT/B M I 642	Statistical Methods for Epidemiology
ECON 400	Introduction to Applied Econometrics
ECON 410	Introductory Econometrics
ECON 570	Fundamentals of Data Analytics for Economists
I SY E 412	Fundamentals of Industrial Data Analytics
I SY E 612	Information Sensing and Analysis for Manufacturing Processes

**Total Credits**

**27-33**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>4</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>5</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>6</sup>

## FOOTNOTES

1

Elective courses must be distinct from those used to fulfill the above requirements.

2

Courses below may have prerequisites outside of this program.

3

MATH courses must be distinct from any used to fulfill an above requirement.

**4**

This includes any course with a MATH prefix (or crosslisted with MATH) regardless of its appearance in the tables above and any non-MATH class explicitly listed in the tables above.

**5**

This includes any MATH course (including those crosslisted with MATH) numbered 307 and above, regardless of its appearance in the tables above, as well as only those non-MATH classes which appear in the tables above and have the advanced LAS attribute.

**6**

This includes any MATH course (and those crosslisted with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

**Freshman**

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 Literature Breadth	3
Communication A		3 Ethnic Studies	3
Foreign Language		4 Foreign Language	4
		<b>15</b>	<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234		4 MATH Required Linear Algebra	3
Humanities Breadth		3 MATH Required Probability	3
Communication B		3 Humanities Breadth	3
Prerequisite for Data Science Fundamentals course		3 Physical Science Breadth	3
Elective		3 Elective	3
		<b>16</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
Required Intermediate MATH		3 MATH Elective	3

Data Science Fundamentals Course	3 Data Science Elective	3
Social Sciences Breadth	3 Social Science Breadth	3
Biological Sciences Breadth	3 Biological Sciences Breadth	3
Elective	3 Elective	3
		<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
MATH 535		3 Advanced MATH elective	3
Data Science Elective		3 Data Science Elective	3
Social Science Breadth		3 Social Science Breadth	3
Electives		6 Electives	6
		<b>15</b>	<b>15</b>

**Total Credits 120**

## MATHEMATICS: MATHEMATICS FOR ECONOMICS AND FINANCE

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics Major with Economics and Finance focus requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits) <sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	

or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Differential equations</i>		0-5
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 322	Applied Mathematical Analysis	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
or MATH 415	Applied Dynamical Systems, Chaos and Modeling	
or MATH 519	Ordinary Differential Equations	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
<i>Analysis Requirement</i>		3
MATH 521	Analysis I	
<i>Electives to reach required six courses for at least 18 credits of MATH</i>		6-9
<i>At least one course must be selected from:</i>		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 522	Analysis II	
MATH/COMP SCI/ISYE/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 605	Stochastic Methods for Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Remaining courses/credits may be from:</i>		
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	

MATH 421	The Theory of Single Variable Calculus	
MATH/COMP SCI/ISYE 425	Introduction to Combinatorial Optimization	
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 443	Applied Linear Algebra	
MATH/COMP SCI/STAT 475	Introduction to Combinatorics	
<b>Economics/Finance Requirement (Four Courses distinct from the above for at least 12 credits)<sup>1</sup></b>		
<i>Select one of the following introductory sequences:</i>		6-8
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment	
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory	
ECON/FINANCE 300 & ECON/FINANCE 320	Introduction to Finance and Investment Theory	
<i>Economics/Finance Elective (choose at least two)<sup>2</sup></i>		6-8
ECON 400	Introduction to Applied Econometrics	
ECON 410	Introductory Econometrics	
ECON/A A E 421	Economic Decision Analysis	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 461	International Macroeconomics	
ECON 464	International Trade	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON/FINANCE 503	Markets with Frictions	
ECON 521	Game Theory and Economic Analysis	
ECON/A A E 526	Quantitative Methods in Agricultural and Applied Economics	
ECON 664	Issues in International Trade	

ECON 666	Issues in International Finance
FINANCE 305	Financial Markets, Institutions and Economic Activity
FINANCE 325	Corporation Finance
FINANCE 330	Derivative Securities
FINANCE 340	Fixed Income Securities
FINANCE/ INTL BUS 445	Multinational Business Finance

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>3</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>4</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>5</sup>

## FOOTNOTES

1

Some courses which follow may have prerequisites outside of the courses approved for this named option.

2

Any MATH course from the elective list above may be used in lieu of any of the following courses.

3

This includes any MATH courses (and those cross-listed with MATH) regardless of appearing in the tables above as well as only those non-MATH courses which are explicitly listed in the tables above.

4

This includes any MATH courses (and those cross-listed with MATH) numbered 307 and above, regardless of appearing in the tables above, as well as only those non-MATH course explicitly listed in the tables above which carry the advanced LAS designation.

5

This includes any MATH courses (and courses cross-listed with MATH) numbered 307 and above regardless of appearing in the tables above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
Literature Breadth	3	Literature Breadth	3
Communication A	3	Ethnic Studies	3
Foreign Language <sup>if required</sup>	4	Foreign Language (if required)	4
<b>15</b>		<b>14</b>	

### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>	4	MATH Linear Algebra	3
Humanities Breadth	3	MATH Differential Equations	3
Communication B	3-5	Humanities Breadth	3
Physical Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
<b>16-18</b>		<b>15</b>	

### Junior

Fall	Credits	Spring	Credits
MATH Required Intermediate Course	3	MATH Elective	3
Economics/ Finance intro course 1	3-4	Economics/Finance intro course 2	3-4
Biological Sciences Breadth	3	Biological Sciences Breadth	3
Social Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
<b>15-16</b>		<b>15-16</b>	

### Senior

Fall	Credits	Spring	Credits
MATH 521	3	Advanced MATH Elective	3
Econ/Finance Elective	3-4	Econ/Finance elective	3-4
Social Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15-16</b>		<b>15-16</b>	

### Total Credits 120-126

Students must declare a major by the time they reach Senior standing (86 credits).

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

1

Students should declare the math major upon successful completion of this course

# MATHEMATICS: MATHEMATICS FOR PROGRAMMING AND COMPUTING

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics for Programming and Computing program requires 10 distinct courses for at least 30 credits as described below. While a single courses may be used to fulfill more than one requirement, it will only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)</b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	
<i>Advanced Mathematics Requirement (complete one)</i>		3
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 531	Probability Theory	

MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH/PHILOS 571	Mathematical Logic	
<i>MATH Elective to reach required minimum of six courses for at least 18 credits</i>		6-12
<i>At least one course must be from: <sup>1</sup></i>		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/COMP SCI/I SY E/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	
MATH/PHILOS 571	Mathematical Logic	
MATH 605	Stochastic Methods for Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/I SY E/OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Select remaining courses from:</i>		
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/COMP SCI/I SY E 425	Introduction to Combinatorial Optimization	

MATH/STAT 431	Introduction to the Theory of Probability
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I
MATH/COMP SCI/ E C E 435	Introduction to Cryptography
MATH 443	Applied Linear Algebra
MATH 467	Introduction to Number Theory
MATH/COMP SCI/STAT 475	Introduction to Combinatorics

**Programming and Computations Requirement**  
(Four courses distinct from the above for at least 12 credits)<sup>2</sup>

COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
Elective <sup>3</sup>		6-8
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/STAT 471	Introduction to Computational Statistics	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	
COMP SCI/ MATH 513	Numerical Linear Algebra	
COMP SCI/ MATH 514	Numerical Analysis	
COMP SCI 520	Introduction to Theory of Computing	
COMP SCI/E C E/ I SY E 524	Introduction to Optimization	
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	
COMP SCI/ I SY E 526	Advanced Linear Programming	
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	
COMP SCI/ E C E 533	Image Processing	
COMP SCI 534	Computational Photography	
COMP SCI 538	Introduction to the Theory and Design of Programming Languages	
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI 545	Natural Language and Computing	
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry	
COMP SCI 559	Computer Graphics	
COMP SCI/ B M I 567	Medical Image Analysis	

COMP SCI/ B M I 576	Introduction to Bioinformatics
COMP SCI 577	Introduction to Algorithms
COMP SCI/ I SY E 635	Tools and Environments for Optimization
COMP SCI 642	Introduction to Information Security

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>4</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>5</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>6</sup>

## FOOTNOTES

1

This course must be distinct from the advanced mathematics requirement.

2

Courses below may have prerequisites outside of the requirements for this named option.

3

Any MATH course from the elective list above may be used in lieu of any of the following courses.

4

This includes any course with a MATH prefix (including those cross-listed with MATH) regardless of major program as well as only those non-MATH course explicitly listed in the tables above.

5

This includes any course with a MATH prefix (including those cross-listed with MATH) numbered 307 and above as well as only those non-MATH courses which appear in the tables above and carry the advanced LAS designation.

6

This includes only those courses with a MATH prefix (or crosslisted with MATH).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

**Freshman**

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 Literature Breadth	3
Communication A		3 Ethnic Studies	3
Foreign Language (if required)		4 Foreign Language (if required)	4
		<b>15</b>	<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH Required Linear Algebra	3
Humanities Breadth		3 Required Intermediate MATH	3
Communication B		3 Humanities Breadth	3
Physical Science Breadth		3 Physical Science Breadth	3
Elective		3 Elective	3
		<b>16</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
Intermediate MATH		3 Intermediate MATH	3
COMP SCI 300		3 COMP SCI 400	3
Social Sciences Breadth		3 L&S Breadth - Social Science	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
Required Advanced MATH		3 Advanced MATH	3
Elective Programming/Computations Course		3 Elective Programming/Computations Course	3
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

<sup>1</sup>

Students should declare the major upon the successful completion of this course

# MATHEMATICS: MATHEMATICS FOR SECONDARY EDUCATION

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a

related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics Major for Secondary Education named option requires at least 8 distinct courses for at least 24 credits as described below. While a single courses may be used to fulfill more than one requirement, it will only contribute once to the total course/credit count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of 8 courses and at least 24 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Requirements (minimum of eight distinct courses for at least 24 credits)<sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-3
MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	
<i>Analysis (complete at least one)</i>		0-3
MATH 421	The Theory of Single Variable Calculus	
MATH 521	Analysis I	
<i>Modern Algebra (complete at least one)</i>		3
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
<i>Probability or Combinatorics (complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/COMP SCI/STAT 475	Introduction to Combinatorics	
MATH 531	Probability Theory	
<i>Statistics</i>		3



MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
or STAT 301	Introduction to Statistical Methods	
or STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	
or STAT 324	Introductory Applied Statistics for Engineers	
or ECON 310	Statistics: Measurement in Economics	
<i>History of Mathematics</i>		3
MATH/ HIST SCI 473	History of Mathematics	
<i>Geometry</i>		3
MATH 461	College Geometry I	
<i>Capstone course</i>		3
MATH/ CURRIC 471	Mathematics for Secondary School Teachers	
<i>Advanced mathematics</i>		0-6
Additional advanced course if needed to reach at least two math courses above 500		
MATH/ COMP SCI 513	Numerical Linear Algebra	
MATH/ COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 551	Elementary Topology	
MATH 561	Differential Geometry	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	
MATH/ PHILOS 571	Mathematical Logic	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/ISY E/ OTM/STAT 632	Introduction to Stochastic Processes	
<b>Total Credits</b>		<b>24</b>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>2</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>3</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>4</sup>

## FOOTNOTES

1

Course options below may have prerequisites outside of those listed for this program.

2

This includes any course with a MATH prefix (including those cross-listed with MATH) regardless of its appearance in the tables above as well as only those specific non-MATH courses listed in the tables above.

3

This includes all MATH courses (including those crosslisted with MATH) which are numbered 307 and above, regardless of appearing in the course lists above, as well as only those non-MATH courses which appear in the lists above and carry the advanced LAS designation.

4

This includes only those courses with a MATH prefix (or cross-listed with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level courses, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 L&S Breadth - Literature	3
Communication A		3 Ethnic Studies	3
Foreign Language (if required)		4 Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH Required Linear Algebra	3
Humanities Breadth		3 MATH Required Probability or Combinatorics	3
Communication B		3 Humanities Breadth	3
Physical Science Breadth		3 Physical Science Breadth	3
Elective		3 Elective	3
	<b>16</b>		<b>15</b>

<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MATH 461		3 MATH Required Statistics	3
MATH Required Analysis		3 MATH Required History of Mathematics	3
Social Sciences Breadth		3 Social Science Breadth	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MATH Required Algebra		3 MATH Required Advance course or Elective	3
Elective		3 MATH/CURRIC 471	3
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

## FOOTNOTES

1

Students should declare their major upon the successful completion of this course

# MATHEMATICS: MATHEMATICS FOR STATISTICAL ANALYSIS AND RISK ASSESSMENT

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics for Statistical Analysis and Risk Assessment program requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra

(MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits) <sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Probability (Complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 531	Probability Theory	
<i>Statistics <sup>1</sup></i>		3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II (Statistics)	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
<i>Advanced Mathematics Requirement (select one)</i>		3
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
<i>Electives to reach required six courses for at least 18 credits in MATH</i>		3-6
<i>At least one elective must come from: <sup>2</sup></i>		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/COMP SCI/ISY E/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	

MATH 540	Linear Algebra II
MATH 541	Modern Algebra
MATH 542	Modern Algebra
MATH 605	Stochastic Methods for Biology
MATH 619	Analysis of Partial Differential Equations
MATH 627	Introduction to Fourier Analysis
MATH 629	Introduction to Measure and Integration
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
<i>Remaining courses/credits may be selected from:</i>	
MATH 319	Techniques in Ordinary Differential Equations
MATH 321	Applied Mathematical Analysis
MATH 322	Applied Mathematical Analysis
MATH 376	Topics in Multi-Variable Calculus and Differential Equations
MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH 421	The Theory of Single Variable Calculus
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography
MATH 443	Applied Linear Algebra
MATH 467	Introduction to Number Theory
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics

**Statistics/Risk Requirement (Four Courses distinct from the above for at least 12 credits)<sup>3</sup>**

Select a distinct introduction course or sequence: 3-6

*Actuarial Sciences:*

ACT SCI 303 Theory of Interest

*Statistics:*

STAT 333 Applied Regression Analysis  
& STAT/M E 424 and Statistical Experimental Design

*Data Science:*

STAT 340 Data Science Modeling II  
& STAT/M E 424 and Statistical Experimental Design

Select remaining courses/credits from:<sup>4</sup> 6-14

ACT SCI 650 Actuarial Mathematics I

ACT SCI 651 Actuarial Mathematics II

ACT SCI 652 Loss Models I

ACT SCI 653 Loss Models II

ACT SCI 654 Regression and Time Series for Actuaries

ACT SCI 655 Health Analytics

GEN BUS 656	Machine Learning for Business Analytics
STAT 349	Introduction to Time Series
STAT 351	Introductory Nonparametric Statistics
STAT 411	An Introduction to Sample Survey Theory and Methods
STAT 421	Applied Categorical Data Analysis
STAT 451	Introduction to Machine Learning and Statistical Pattern Classification
STAT 453	Introduction to Deep Learning and Generative Models
STAT 456	Applied Multivariate Analysis
STAT 461	Financial Statistics
STAT/ COMP SCI 471	Introduction to Computational Statistics
STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization
STAT 575	Statistical Methods for Spatial Data
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes
STAT/B M I 641	Statistical Methods for Clinical Trials
STAT/B M I 642	Statistical Methods for Epidemiology

**Total Credits**

**30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>5</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>6</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>7</sup>

## FOOTNOTES

1

Students taking STAT 312 to satisfy the Statistics requirement will not be able to use this course towards the six courses/18 credits of MATH courses.

2

This course must be distinct from the advanced mathematics requirement.

3

The courses which follow may have prerequisites outside of this program.

4

Any MATH course from the elective list above may be used in lieu of any of the following courses.

5

This includes any course with a MATH prefix (or cross-listed with MATH) regardless of its appearance in the tables above and any non-MATH course explicitly listed in the tables above.

**6**

This includes any MATH course (including those crosslisted with MATH) which are numbered 307 and above, regardless of its appearance in the tables above, as well as only those non-MATH course which appear in the tables above and have the advanced LAS attribute.

**7**

This includes any MATH course (and those crosslisted with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

**Freshman**

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
Literature Breadth	3	Literature Breadth	3
Communication A	3	Ethnic Studies	3
Foreign Language <sup>if required</sup>	4	Foreign Language (if required)	4
<b>15</b>		<b>14</b>	

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>	4	MATH Required Linear Algebra	3
Humanities Breadth	3	MATH required Probability	3
Communication B	3	Humanities Breadth	3
Physical Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
<b>16</b>		<b>15</b>	

**Junior**

Fall	Credits	Spring	Credits
MATH required Statistics	3	Required Intermediate MATH	3
Data/Risk course	3	Data/Risk course	3
Social Sciences Breadth	3	Social Science Breadth	3
Biological Sciences Breadth	3	Biological Sciences Breadth	3

Elective	3 Elective	3	
<b>15</b>		<b>15</b>	
<b>Senior</b>			
Fall	Credits	Spring	Credits
Required Advanced MATH	3	Advanced MATH Elective	3
Data/Risk course	3	Data/Risk course	3
Social Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 120**

**1**

Students should declare their major upon the successful completion of this course

## MATHEMATICS: MATHEMATICS FOR THE PHYSICAL AND BIOLOGICAL SCIENCES

The mathematics named option programs allow students to develop a deep understanding of how the subject relates to other areas of human inquiry. The requirements for these programs feature mathematics courses with topics inspired by and commonly applied to problems in these associated fields. Though often paired with a second major in a related area, these programs function well alone and are suited to any mathematics student with a variety of interests. Students interested in a named option program are recommended to meet with an advisor to navigate the various plans and courses available to them. Advising information can be found on the BA or BS pages (p. 1160).

The named options do not support honors in the major.

## REQUIREMENTS

The Mathematics for the Physical and Biological Sciences program requires 10 distinct courses for at least 30 credits as described below. While a single courses may be used to fulfill more than one requirement, it will only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits) <sup>1</sup></b>		
<i>Linear Algebra</i>		
MATH 320	Linear Algebra and Differential Equations	3-5
or MATH 340	Elementary Matrix and Linear Algebra	

or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Differential Equations</i>		0-5
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 322	Applied Mathematical Analysis	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
or MATH 415	Applied Dynamical Systems, Chaos and Modeling	
or MATH 519	Ordinary Differential Equations	
<i>Intermediate Mathematics Requirement (complete one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 341	Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
<i>Advanced Mathematics Requirement (complete one)</i>		3
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 531	Probability Theory	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 551	Elementary Topology	
MATH 561	Differential Geometry	
MATH 619	Analysis of Partial Differential Equations	
MATH 623	Complex Analysis	
<i>MATH Elective to reach six courses and 18 credits</i>		3-9
<i>At least one from:<sup>1</sup></i>		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/COMP SCI/ISYE/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 551	Elementary Topology	
MATH 552	Elementary Geometric and Algebraic Topology	

MATH 561	Differential Geometry	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	
MATH/PHILOS 571	Mathematical Logic	
MATH 605	Stochastic Methods for Biology	
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 623	Complex Analysis	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Remaining courses/credits may be from:</i>		
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/COMP SCI/ISYE 425	Introduction to Combinatorial Optimization	
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 443	Applied Linear Algebra	
MATH/COMP SCI/STAT 475	Introduction to Combinatorics	

**Natural/Biological Sciences Requirement (Four courses distinct from the above for at least 12 credits)<sup>1</sup>**

PHYSICS 247	A Modern Introduction to Physics	
or PHYSICS 207	General Physics	
or PHYSICS 201	General Physics	
or E M A 201	Statics	
PHYSICS 248	A Modern Introduction to Physics	
or PHYSICS 208	General Physics	
or PHYSICS 202	General Physics	
<i>Two additional courses from the following:<sup>2</sup></i>		
ASTRON 310	Stellar Astrophysics	
ASTRON 320	The Interstellar Medium	
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	

ATM OCN 311	Dynamics of the Atmosphere and Ocean II	PHYSICS 625	Applied Optics
ATM OCN/ GEOG 323	Science of Climate Change	STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
ATM OCN 330	Physics of the Atmosphere and Ocean I	or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
ATM OCN 340	Physics of the Atmosphere and Ocean II	STAT 333	Applied Regression Analysis
BIOCORE 383	Cellular Biology	STAT 349	Introduction to Time Series
CHEM 561	Physical Chemistry	STAT 351	Introductory Nonparametric Statistics
or CHEM 565	Biophysical Chemistry	STAT 411	An Introduction to Sample Survey Theory and Methods
CHEM 562	Physical Chemistry	STAT 421	Applied Categorical Data Analysis
COMP SCI 300	Programming II	STAT/M E 424	Statistical Experimental Design
COMP SCI 310	Problem Solving Using Computers	STAT/MATH 431	Introduction to the Theory of Probability
COMP SCI 320	Data Science Programming II	or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I
COMP SCI 400	Programming III	or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	STAT 456	Applied Multivariate Analysis
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	STAT 461	Financial Statistics
COMP SCI/ MATH 513	Numerical Linear Algebra	STAT/ COMP SCI 471	Introduction to Computational Statistics
COMP SCI/ MATH 514	Numerical Analysis	STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization
GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes
GEOSCI/ CIV ENGR/ ENVIR ST/ G L E 444	Practical Applications of GPS Surveying	BIOCHEM 570	Computational Modeling of Biological Systems
GEOSCI/ G L E 537	Quantitative Methods for Geoscience	BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology
GEOSCI/ G L E 594	Introduction to Applied Geophysics	BIOCHEM/ BOTANY 621	Plant Biochemistry
GEOSCI/ G L E 627	Hydrogeology	BIOCHEM 630	
PHYSICS 249	A Modern Introduction to Physics	BSE 249	Engineering Principles for Biological Systems
or PHYSICS 241	Introduction to Modern Physics	BSE 349	Quantitative Techniques for Biological Systems
or PHYSICS 205	Modern Physics for Engineers	BSE 351	Structural Design for Agricultural Facilities
PHYSICS 311	Mechanics	BSE 364	Engineering Properties of Food and Biological Materials
PHYSICS 321	Electric Circuits and Electronics	BSE 365	Measurements and Instrumentation for Biological Systems
PHYSICS 322	Electromagnetic Fields	BSE/M E 475	Engineering Principles of Agricultural Machinery
PHYSICS 323	Electromagnetic Fields	B M E 310	Bioinstrumentation
PHYSICS 325	Optics	B M E 315	Biomechanics
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	B M E 325	Applied Statistics for Biomedical Engineers
PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiation Physics and Dosimetry	B M E 330	Engineering Principles of Molecules, Cells, and Tissues
PHYSICS/E C E/ N E 525	Introduction to Plasmas		
PHYSICS 551	Solid State Physics		
PHYSICS 623	Electronic Aids to Measurement		

B M E/H ONCOL/ MED PHYS/ PHYSICS 501	Radiation Physics and Dosimetry
B M E/M E 505	Biofluidics
B M E 520	Stem Cell Bioengineering
B M E/ MED PHYS 530	Medical Imaging Systems
B M E/ MED PHYS 535	Introduction to Energy-Tissue Interactions
B M E 556	Systems Biology: Mammalian Signaling Networks
B M E/ MED PHYS 566	Physics of Radiotherapy
B M E/ MED PHYS 567	The Physics of Diagnostic Radiology
B M E/ MED PHYS 573	Mathematical Methods in Medical Physics
B M E/M E 615	Tissue Mechanics
CBE 255	Introduction to Chemical Process Modeling
CBE 310	Chemical Process Thermodynamics
CBE 320	Introductory Transport Phenomena
CBE 326	Momentum and Heat Transfer Operations
CIV ENGR 310	Fluid Mechanics
CIV ENGR 311	Hydroscience
CIV ENGR 322	Environmental Engineering Processes
CIV ENGR 340	Structural Analysis I
CIV ENGR 370	Transportation Engineering
CIV ENGR/I SY E/ N E 460	Uncertainty Analysis for Engineers
E C E 220	Electrodynamics I
E C E 230	Circuit Analysis
E C E/ PHYSICS 235	Introduction to Solid State Electronics
E C E 320	Electrodynamics II
E C E 330	Signals and Systems
E C E/COMP SCI/ MATH 435	Introduction to Cryptography
E C E/MATH 641	Introduction to Error-Correcting Codes
E M A 202	Dynamics
or M E 240	Dynamics
E M A 303	Mechanics of Materials
or M E 306	Mechanics of Materials
E M A 405	Practicum in Finite Elements
E M A/E P 471	Intermediate Problem Solving for Engineers
E M A/E P 547	Engineering Analysis I
E M A/E P 548	Engineering Analysis II
E M A/ ASTRON 550	Astroynamics
I SY E 320	Simulation and Probabilistic Modeling

I SY E 323	Operations Research-Deterministic Modeling
I SY E/CIV ENGR/ N E 460	Uncertainty Analysis for Engineers
I SY E 516	Introduction to Decision Analysis
I SY E/COMP SCI/ E C E 524	Introduction to Optimization
I SY E/COMP SCI/ MATH/STAT 525	Linear Optimization
I SY E/ COMP SCI 526	Advanced Linear Programming
M S & E 330	Thermodynamics of Materials
M S & E 331	Transport Phenomena in Materials
M S & E 332	Macroprocessing of Materials
M S & E 434	Introduction to Thin-Film Deposition Processes
M S & E 460	Introduction to Computational Materials Science and Engineering
M E 331	Computer-Aided Engineering
M E 340	Dynamic Systems
M E 346	Introduction to Feedback Control for Mechanical Engineers
M E 361	Thermodynamics
M E/STAT 424	Statistical Experimental Design
N E 305	Fundamentals of Nuclear Engineering
N E/E C E/ PHYSICS 525	Introduction to Plasmas
N E/I SY E 574	Methods for Probabilistic Risk Analysis of Nuclear Power Plants
MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry
MED PHYS/ B M E 530	Medical Imaging Systems
MED PHYS/ B M E 535	Introduction to Energy-Tissue Interactions
MED PHYS 563	Radionuclides in Medicine and Biology
MED PHYS/ B M E 567	The Physics of Diagnostic Radiology
MED PHYS/ N E 569	Health Physics and Biological Effects

**Total Credits****30**

## RESIDENCY AND QUALITY OF WORK

- 2.000 GPA for all MATH courses and courses eligible for the major.<sup>3</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>4</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>5</sup>

## FOOTNOTES

1

Courses listed in the tables below may have prerequisites outside of the program requirements.

2

Any MATH course from the elective list above may be used in lieu of any of the following courses.

3

This includes any course with the MATH prefix (or cross-listed with MATH) regardless of appearing in the tables above as well as only those non-MATH courses which appear in the tables above.

4

This includes any MATH courses (or courses cross-listed with MATH) numbered 307 and above, regardless of appearing in the tables above, as well as any non-MATH course listed in the tables above which carries the advanced LAS designation.

5

This includes any course with the MATH prefix (or cross-listed with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 Literature Breadth	3
Communication A		3 Ethnic Studies	3
Foreign Language <sup>if required</sup>		4 Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH 321	3
MATH 320		3 Humanities Breadth	3
Humanities Breadth		3 Elective	6
Communication B		3	

Elective		3	
		<b>16</b>	<b>12</b>

#### Junior

Fall	Credits	Spring	Credits
MATH 322		3 Intermediate MATH elective	3
PHYSICS 247, 207, 201, or E M A 201		5 PHYSICS 248, 208, or 202	5
Social Sciences Breadth		3 Social Science Breadth	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
		<b>17</b>	<b>17</b>

#### Senior

Fall	Credits	Spring	Credits
Required Advanced MATH		3 Advanced MATH	3
Natural/Biological requirement elective		3 Natural/Biological requirement elective	3
Social Science Breadth		3 Social Science Breadth	3
Elective		6 Elective	5
		<b>15</b>	<b>14</b>

**Total Credits 120**

## FOOTNOTES

1

Students should declare their major upon the successful completion of this course

## MATHEMATICS, B.S.

Mathematics bridges the humanities and the sciences. Its position among the humanities is based on the study of mathematics as one of the liberal arts for more than two thousand years. The natural sciences have invariably turned to mathematics for techniques needed to explore the consequences of scientific theories. In the last few decades social scientists have increasingly found higher mathematics of value in their training and research. Still an expanding subject, mathematics is a part of more new and challenging frontiers than at any time in its long history—with many new fields, from data science to quantum computing, requiring new techniques and inspiring ideas for exploration.

Graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including some in the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals, interests, and careers.



Students interested in mathematics might also consider the related degree program in applied mathematics, engineering and physics (p. 1150).

## HOW TO GET IN

### DECLARATION

To declare a major in mathematics, a student must have completed the sequence MATH 221, MATH 222, and MATH 234, or the sequence MATH 375 and MATH 376, with a 2.500 GPA or better. Major advisors may waive this requirement for students with alternative coursework and experiences (e.g., transfer students). Students should meet with a math advisor before declaring in order to discuss course selection and major plan. Advising information can be found in the Advising and Careers (<https://guide.wisc.edu/undergraduate/letters-science/mathematics/mathematics-bs/#advisingandcareerstext>) link.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The mathematics major requirements include exposure to at least two areas of advanced mathematics. The program is ideal for any student who has a broad interest in mathematics both pure and applied, and functions well as a standalone or complementary program.

The mathematics major requires 7 distinct courses for at least 21 credits as described below. Note that at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: seven courses and at least 21 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320, or MATH 376), and Intro Probability (MATH/STAT 309, MATH 331, or MATH/STAT 431).

**At least seven MATH courses for at least 21 credits are required for the major as follows<sup>1</sup>:**

Code	Title	Credits
<b>Linear Algebra (complete one)<sup>2</sup></b>		<b>3-5</b>
MATH 341	Linear Algebra	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	

or MATH 375 Topics in Multi-Variable Calculus and Linear Algebra

Code	Title	Credits
<b>Analysis, Topology, Algebra (complete two)</b>		<b>6</b>
MATH 521	Analysis I	
MATH 541	Modern Algebra	
MATH 551	Elementary Topology	

### Advanced MATH Elective (complete one)

Code	Title	Credits
<b>Complete at least one for three credits:</b>		<b>3</b>
MATH/ COMP SCI 513	Numerical Linear Algebra	
MATH/ COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 551	Elementary Topology	
MATH 552	Elementary Geometric and Algebraic Topology	
MATH 561	Differential Geometry	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	
MATH/ PHILOS 571	Mathematical Logic	
MATH 605	Stochastic Methods for Biology	
MATH 607	Topics in Mathematics Study Abroad	
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 621	Introduction to Manifolds	
MATH 623	Complex Analysis	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
MATH/E C E 641	Introduction to Error-Correcting Codes	
MATH 681	Senior Honors Thesis	

MATH 682 Senior Honors Thesis

MATH 691 Undergraduate Thesis

MATH 692 Undergraduate Thesis

MATH 698 Directed Study

MATH 699 Directed Study

### Additional MATH Elective to achieve 7 courses and 21 credits in the major

Code	Title	Credits
<b>Choose from the following:</b>		<b>9</b>
MATH/STAT 309	Introduction to Probability and Mathematical Statistics I <sup>3</sup>	
or MATH 331	Introductory Probability	
or MATH/ STAT 431	Introduction to the Theory of Probability	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 319	Techniques in Ordinary Differential Equations <sup>4</sup>	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 390	Undergraduate Research with Madison Experimental Mathematics Lab	
MATH 407	Topics in Mathematics Study Abroad	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography	
MATH 441	Introduction to Modern Algebra	
MATH 443	Applied Linear Algebra	
MATH 461	College Geometry I	
MATH 467	Introduction to Number Theory	
MATH/ HIST SCI 473	History of Mathematics	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
MATH 490	Undergraduate Seminar	
MATH 491	Topics in Undergraduate Mathematics	
MATH/ COMP SCI 513	Numerical Linear Algebra	
MATH/ COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	

MATH/ COMP SCI/ISYE/ STAT 525	Linear Optimization
MATH 531	Probability Theory
MATH 535	Mathematical Methods in Data Science
MATH 540	Linear Algebra II
MATH 541	Modern Algebra
MATH 542	Modern Algebra
MATH 551	Elementary Topology
MATH 552	Elementary Geometric and Algebraic Topology
MATH 561	Differential Geometry
MATH 567	Modern Number Theory
MATH 570	Fundamentals of Set Theory
MATH/ PHILOS 571	Mathematical Logic
MATH 605	Stochastic Methods for Biology
MATH 607	Topics in Mathematics Study Abroad
MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology
MATH 619	Analysis of Partial Differential Equations
MATH 621	Introduction to Manifolds
MATH 623	Complex Analysis
MATH 627	Introduction to Fourier Analysis
MATH 629	Introduction to Measure and Integration
MATH/ISYE/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
MATH/E C E 641	Introduction to Error-Correcting Codes
MATH 681	Senior Honors Thesis
MATH 682	Senior Honors Thesis
MATH 691	Undergraduate Thesis
MATH 692	Undergraduate Thesis
MATH 698	Directed Study
MATH 699	Directed Study

**Total Credits****9**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all MATH and major courses.
- 2.000 GPA on 15 upper-level major credits, taken in residence.<sup>5</sup>
- 15 credits in MATH, taken on the UW-Madison campus.

## NAMED OPTIONS

View as listView as grid

- MATHEMATICS: MATHEMATICS FOR DATA SCIENCE (P. 1161)
- MATHEMATICS: MATHEMATICS FOR ECONOMICS AND FINANCE (P. 1163)
- MATHEMATICS: MATHEMATICS FOR PROGRAMMING AND COMPUTING (P. 1166)
- MATHEMATICS: MATHEMATICS FOR SECONDARY EDUCATION (P. 1168)
- MATHEMATICS: MATHEMATICS FOR STATISTICAL ANALYSIS AND RISK ASSESSMENT (P. 1170)
- MATHEMATICS: MATHEMATICS FOR THE PHYSICAL AND BIOLOGICAL SCIENCES (P. 1172)

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Mathematics Honors advisor (<https://www.math.wisc.edu/undergraduate/advising/>); this should be done by the start of the junior year. Honors in the major is not available in any Named Option program.

## HONORS IN THE MATHEMATICS MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the mathematics major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all MATH courses, and all courses accepted in the major
- Complete the following courses, with individual grades of B or better:

Code	Title	Credits
MATH 521 & MATH 522	Analysis I and Analysis II (Taken for Honors) <sup>6</sup>	
MATH 541 & MATH 542	Modern Algebra and Modern Algebra (Taken for Honors) <sup>6</sup>	

Select at least two more courses from MATH 500 through MATH/E C E 641. These course must be taken for honors. The following will usually be one of the courses:<sup>7</sup>

MATH 551	Elementary Topology
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Select one of these Capstone projects:

MATH 681 & MATH 682	Senior Honors Thesis and Senior Honors Thesis (For a total of 6 credits)
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or

A sequence of two upper-level mathematics courses deemed acceptable by the Mathematics Honors advisor <sup>7</sup>	
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## FOOTNOTES

1

A course may only apply once toward the courses/credits required for the major. Thus, a course used to meet the Analysis, Topology and Algebra requirement may *not* also be used to meet the requirement for MATH 500-699 requirement and a course used to meet the MATH 500-699 requirement may *not* also be used in the Additional Math requirement.

2

Only one of these courses will be used to fulfill minimum course/credit requirements for the major: MATH 320, MATH 340, MATH 341, MATH 375

3

At most one course in Introductory Probability may be used to fulfill the course/credit requirements for the major: MATH/STAT 309 and MATH/STAT 431.

4

At most one course in Elementary Differential Equations may be used to fulfill the course/credit requirements for the major: MATH 319, MATH 320, MATH 376.

5

MATH courses numbered 307-699 are considered upper level in the major.

6

At least one of the two sequences (MATH 521-MATH 522 or MATH 541-MATH 542) must be completed prior to enrolling in the Capstone project.

7

Chosen in consultation with the Mathematics Honors advisor.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. State, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas including at least one area of advanced undergraduate mathematics.

2. Construct and evaluate mathematical proofs and arguments.
3. Acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
4. Use mathematics to model and analyze phenomena in other disciplines.
5. Write, explain, and present mathematics to both experts and non-experts.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Mathematics Major - Bachelor of Arts/Science Degree

##### Freshman

Fall	Credits	Spring	Credits
MATH 221 <sup>1,2</sup>		5 MATH 222 <sup>2</sup>	4
Communication A		3 Ethnic Studies	3
Foreign Language (if needed)		4 Foreign Language (if needed)	4
Literature Breadth		3 Literature Breadth	3
	<b>15</b>		<b>14</b>

##### Sophomore

Fall	Credits	Spring	Credits
MATH 234		4 MATH 341	3
Communication B		3 Intermediate MATH <sup>3</sup>	3
Humanities Breadth		3 Humanities Breadth	3
Physical Science Breadth		3 Physical Sciences Breadth	3
Elective		3 Elective	3
	<b>16</b>		<b>15</b>

##### Junior

Fall	Credits	Spring	Credits
Intermediate MATH <sup>3</sup>		3 Intermediate MATH <sup>3</sup>	3
Advanced MATH <sup>4</sup>		3 Advanced MATH <sup>4</sup>	3
Social Sciences Breadth		3 Social Sciences Breadth	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

##### Senior

Fall	Credits	Spring	Credits
Advanced MATH <sup>4</sup>		3 Social Sciences Breadth	3
Social Science Breadth		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3

Elective	3 Elective	3
	<b>15</b>	<b>15</b>

**Total Credits 120**

1

Math majors will naturally complete Quantitative Reasoning requirements with the introductory calculus courses required to declare the major.

2

Declaration of the Mathematics major requires a 2.500 cumulative GPA across the introductory calculus sequence. Students that are unable to establish a GPA for any courses in the introductory calculus sequence are encouraged to speak with a math major advisor as soon as possible.

3

An intermediate level math course is any numbered above 306 excluding MATH 320, MATH 340, or MATH 341, or MATH/CURRIC 471.

4

An advanced level MATH course is any numbered above 500.

**THREE-YEAR PLAN****SAMPLE THREE-YEAR PLAN**

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

**DEPARTMENTAL EXPECTATIONS**

Historically, students who have successfully complete a three year undergraduate degree with a major in Mathematics have the following qualifications: a minimum of 29 advanced standing credits, which include completion of the following with either course credit or via placement examination:

- MATH 221 and MATH 222
- Communication Part A
- 3-4 units of foreign language

Therefore the plan below assumes these requirements, but none other. When considering the plan below, students should note the following:

- Advanced standing credits may satisfy Ethnic Studies, Communication Part B, and/or Letters & Science Breadth degree requirements which are listed in the plan. In this case, students should adjust their plan by reorganizing the remaining degree requirements using the following priorities: 1) Ethnic Studies and Communication Part B (obligatory in the first year); 2) Physical, Biological, and Social Science Breadth (which may be prerequisites for more advanced electives); 3) Humanities and Literature. Remaining schedule space should be considered electives.

- At least 26 of the non-MATH credits must be at the Intermediate or Advanced level.
- Consider using the elective space in the plan as follows: additional major or certificate, career readiness, graduate school preparation, and other personal interests.

**First Year**

Fall	Credits	Spring	Credits
MATH 234	4	MATH Linear Algebra	3
Ethnic Studies	3	Intermediate MATH	3
Communication B	3	Physical Science Breadth	3
Biological Science Breadth	3	Biological Science Breadth	3
Physical Science Breadth	3	Foreign Language (if needed for the B.A.) or Elective	3
	<b>16</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
Intermediate MATH	3	Advanced MATH	3
Advanced MATH	3	Intermediate MATH	3
Literature Breadth	3	Literature Breadth	3
Social Science Breadth	3	Social Science Breadth	3
Elective (Intermediate or Advanced level)	3	Elective (Intermediate or Advanced level)	3
	<b>15</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Advanced MATH	3	Humanities Breadth (Intermediate or Advanced level)	3
Social Science Breadth	3	Social Science Breadth (Intermediate or Advanced level)	3
Humanities Breadth	3	Elective (Intermediate or Advanced level)	9
Elective (Intermediate or Advanced level)	6		
	<b>15</b>		<b>15</b>

**Total Credits 91****ADVISING AND CAREERS****ADVISING**

Students who are interested in the math major should visit a faculty advisor. Information about current advisor availability is on the Math advising page (<https://www.math.wisc.edu/undergraduate/advising/>).

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement/>) of the department.

## TRANSITION COURSES

All majors are required to complete at least one of the following. It is suggested that majors (and those interested in the major) complete such a course as soon in their academic career as possible.

Code	Title	Credits
MATH 341	Linear Algebra	
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	

## GRADUATE STUDY

Students preparing for graduate work in mathematics should take the following courses:

Code	Title	Credits
MATH 341 or MATH 375	Linear Algebra Topics in Multi-Variable Calculus and Linear Algebra	3
MATH 521	Analysis I	3
MATH 522	Analysis II	3
MATH 541	Modern Algebra	3
MATH 542	Modern Algebra	3
MATH 551 or MATH 561	Elementary Topology Differential Geometry	3

Select at least two other courses at the 500 level or higher

Students who plan to enter a mathematics Ph.D. program should acquire a reading knowledge of at least one foreign language as early as possible. For mathematics study, the most useful languages are French, German, and Russian.

## CAREERS

In recent years graduating math majors have obtained employment in a variety of jobs in business, industry, and governmental agencies and also have obtained teaching positions at the secondary school level (such teaching positions normally require teaching certification). Others have continued their education at the graduate level in mathematics and other fields. Departments in a variety of fields which use mathematics, including the social and biological sciences as well as in engineering and the physical sciences, are interested in attracting math majors into their graduate programs. Math Ph.D.'s obtain academic positions at the college and university level and nonacademic positions entailing consulting and research. The math major requirements are flexible enough to allow preparation for various goals.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Math Department website (<https://math.wisc.edu>) for a complete list of faculty (<https://math.wisc.edu/math-faculty/>) and instructional academic staff (<https://math.wisc.edu/academic-staff/>).

## RESOURCES AND SCHOLARSHIPS

The Department of Mathematics offers scholarships, awards, and prizes (<https://math.wisc.edu/undergraduate/awards/>) to declared math majors. The majority of award opportunities are available in the fall semester with applications typically open midway through the semester. Spring awards are smaller in number and also open midway through the semester.

Awards vary in scope and criteria. Some awards are open to students who exhibit financial need, while others are granted to students based on academic merit. Other awards are related to undergraduate research. Awards may be open to specific student populations, such as:

- Underrepresented students of color
- Self-identified women
- Graduating majors
- Early-career majors

Declared math majors are encouraged to apply for any awards in which they meet the qualifications.

# MATHEMATICS: MATHEMATICS FOR DATA SCIENCE

## REQUIREMENTS

The Mathematics for Data Science program requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count.

Finally, at most only one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: requirements: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)</b>		
<i>Linear Algebra</i>		3-5
MATH 340	Elementary Matrix and Linear Algebra	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 421	The Theory of Single Variable Calculus	
MATH 341	Linear Algebra	
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Probability (complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 531	Probability Theory	
<i>Numerical and optimization methods (complete at least one)</i>		3
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI/I SY E/STAT 525	Linear Optimization	
MATH/COMP SCI 514	Numerical Analysis	
MATH 443	Applied Linear Algebra	

MATH/COMP SCI/I SY E 425	Introduction to Combinatorial Optimization	
<i>Mathematics of data</i>		3
MATH 535	Mathematical Methods in Data Science	
<i>Advanced Electives (complete at least one):</i>		0-3
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH/COMP SCI/I SY E/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 540	Linear Algebra II	
MATH/I SY E/OTM/STAT 632	Introduction to Stochastic Processes	
<i>Electives to reach required six courses for at least 18 credits in MATH<sup>1</sup></i>		0-6
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH/COMP SCI/I SY E 425	Introduction to Combinatorial Optimization	
MATH 443	Applied Linear Algebra	
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH/COMP SCI/I SY E/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 540	Linear Algebra II	
MATH/I SY E/OTM/STAT 632	Introduction to Stochastic Processes	
<b>Data Science Requirement (at least four courses for at least 12 credits)<sup>2</sup></b>		12
<i>Data Science Fundamentals (choose one)</i>		
STAT 340	Data Science Modeling II	
COMP SCI 320	Data Science Programming II	
<i>Remaining courses may be selected from below or from the MATH elective lists above.<sup>3</sup></i>		
COMP SCI/E C E/I SY E 524	Introduction to Optimization	
COMP SCI/E C E 533	Image Processing	
COMP SCI/E C E/M E 539	Introduction to Artificial Neural Networks	
COMP SCI 540	Introduction to Artificial Intelligence	
COMP SCI/E C E 561	Probability and Information Theory in Machine Learning	

COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI/ B M I 576	Introduction to Bioinformatics
STAT 351	Introductory Nonparametric Statistics
STAT 421	Applied Categorical Data Analysis
STAT/M E 424	Statistical Experimental Design
STAT 433	Data Science with R
STAT 443	Classification and Regression Trees
STAT 453	Introduction to Deep Learning and Generative Models
STAT 456	Applied Multivariate Analysis
STAT 461	Financial Statistics
STAT/ COMP SCI 471	Introduction to Computational Statistics
STAT/B M I 641	Statistical Methods for Clinical Trials
STAT/B M I 642	Statistical Methods for Epidemiology
ECON 400	Introduction to Applied Econometrics
ECON 410	Introductory Econometrics
ECON 570	Fundamentals of Data Analytics for Economists
I SY E 412	Fundamentals of Industrial Data Analytics
I SY E 612	Information Sensing and Analysis for Manufacturing Processes

**Total Credits** **27-33**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>4</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>5</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>6</sup>

## FOOTNOTES

**1**  
Elective courses must be distinct from those used to fulfill the above requirements.

**2**  
Courses below may have prerequisites outside of this program.

**3**  
MATH courses must be distinct from any used to fulfill an above requirement.

**4**  
This includes any course with a MATH prefix (or crosslisted with MATH) regardless of its appearance in the tables above and any non-MATH class explicitly listed in the tables above.

**5**  
This includes any MATH course (including those crosslisted with MATH) numbered 307 and above, regardless of its appearance in the tables above, as well as only those non-MATH classes which appear in the tables above and have the advanced LAS attribute.

**6**  
This includes any MATH course (and those crosslisted with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
Literature Breadth	3	Literature Breadth	3
Communication A	3	Ethnic Studies	3
Foreign Language	4	Foreign Language	4
<b>15</b>		<b>14</b>	

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234	4	MATH Required Linear Algebra	3
Humanities Breadth	3	MATH Required Probability	3
Communication B	3	Humanities Breadth	3
Prerequisite for Data Science Fundamentals course	3	Physical Science Breadth	3
Elective	3	Elective	3
<b>16</b>		<b>15</b>	

#### Junior

Fall	Credits	Spring	Credits
Required Intermediate MATH	3	MATH Elective	3
Data Science Fundamentals Course	3	Data Science Elective	3
Social Sciences Breadth	3	Social Science Breadth	3
Biological Sciences Breadth	3	Biological Sciences Breadth	3



Elective	3 Elective	3
<b>15</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
		<b>Credits</b>
MATH 535	3 Advanced MATH elective	3
Data Science Elective	3 Data Science Elective	3
Social Science Breadth	3 Social Science Breadth	3
Electives	6 Electives	6
<b>15</b>		<b>15</b>

**Total Credits 120**

# MATHEMATICS: MATHEMATICS FOR ECONOMICS AND FINANCE

## REQUIREMENTS

The Mathematics Major with Economics and Finance focus requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)<sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Differential equations</i>		0-5
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 320	Linear Algebra and Differential Equations	
or MATH 322	Applied Mathematical Analysis	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
or MATH 415	Applied Dynamical Systems, Chaos and Modeling	
or MATH 519	Ordinary Differential Equations	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	

MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
<i>Analysis Requirement</i>		3
MATH 521	Analysis I	
<i>Electives to reach required six courses for at least 18 credits of MATH</i>		6-9
<i>At least one course must be selected from:</i>		
MATH/ COMP SCI 513	Numerical Linear Algebra	
MATH/ COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 522	Analysis II	
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 605	Stochastic Methods for Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Remaining courses/credits may be from:</i>		
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/ STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 443	Applied Linear Algebra	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
<b>Economics/Finance Requirement (Four Courses distinct from the above for at least 12 credits)<sup>1</sup></b>		
<i>Select one of the following introductory sequences:</i>		6-8

ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment
ECON 301 & ECON 302	Intermediate Microeconomic Theory and Intermediate Macroeconomic Theory
ECON/ FINANCE 300 & ECON/ FINANCE 320	Introduction to Finance and Investment Theory
Economics/Finance Elective (choose at least two) <sup>2</sup>	6-8
ECON 400	Introduction to Applied Econometrics
ECON 410	Introductory Econometrics
ECON/A A E 421	Economic Decision Analysis
ECON 435	The Financial System
ECON 441	Analytical Public Finance
ECON 442	Macroeconomic Policy
ECON 448	Human Resources and Economic Growth
ECON 450	Wages and the Labor Market
ECON 451	The Economic Approach to Human Behavior
ECON 455	Behavioral Economics
ECON 458	Industrial Structure and Competitive Strategy
ECON 460	Economic Forecasting
ECON 461	International Macroeconomics
ECON 464	International Trade
ECON 468	Industrial Organization and Imperfect Competition
ECON 475	Economics of Growth
ECON/ FINANCE 503	Markets with Frictions
ECON 521	Game Theory and Economic Analysis
ECON/A A E 526	Quantitative Methods in Agricultural and Applied Economics
ECON 664	Issues in International Trade
ECON 666	Issues in International Finance
FINANCE 305	Financial Markets, Institutions and Economic Activity
FINANCE 325	Corporation Finance
FINANCE 330	Derivative Securities
FINANCE 340	Fixed Income Securities
FINANCE/ INTL BUS 445	Multinational Business Finance

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>3</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>4</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>5</sup>

## FOOTNOTES

- 1 Some courses which follow may have prerequisites outside of the courses approved for this named option.
- 2 Any MATH course from the elective list above may be used in lieu of any of the following courses.
- 3 This includes any MATH courses (and those cross-listed with MATH) regardless of appearing in the tables above as well as only those non-MATH courses which are explicitly listed in the tables above.
- 4 This includes any MATH courses (and those cross-listed with MATH) numbered 307 and above, regardless of appearing in the tables above, as well as only those non-MATH course explicitly listed in the tables above which carry the advanced LAS designation.
- 5 This includes any MATH courses (and courses cross-listed with MATH) numbered 307 and above regardless of appearing in the tables above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

Freshman			
Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 Literature Breadth	3
Communication A		3 Ethnic Studies	3
Foreign Language <sup>if required</sup>		4 Foreign Language (if required)	4
<b>15</b>		<b>14</b>	

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH Linear Algebra	3
Humanities Breadth		3 MATH Differential Equations	3
Communication B		3-5 Humanities Breadth	3
Physical Science Breadth		3 Physical Science Breadth	3
Elective		3 Elective	3
		<b>16-18</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
MATH Required Intermediate Course		3 MATH Elective	3
Economics/ Finance intro course 1		3-4 Economics/Finance intro course 2	3-4
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Social Science Breadth		3 Physical Science Breadth	3
Elective		3 Elective	3
		<b>15-16</b>	<b>15-16</b>

**Senior**

Fall	Credits	Spring	Credits
MATH 521		3 Advanced MATH Elective	3
Econ/Finance Elective		3-4 Econ/Finance elective	3-4
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15-16</b>	<b>15-16</b>

**Total Credits 120-126**

Students must declare a major by the time they reach Senior standing (86 credits).

Please refer to the Requirements tab in Guide for additional College of Letters & Science Breadth and Degree Requirements as well as Residence and Quality of Work requirements for the major.

1

Students should declare the math major upon successful completion of this course

# MATHEMATICS: MATHEMATICS FOR PROGRAMMING AND COMPUTING

## REQUIREMENTS

The Mathematics for Programming and Computing program requires 10 distinct courses for at least 30 credits as described below. While a single course may be used to fulfill more than one requirement, it will only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum

course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)</b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	
<i>Advanced Mathematics Requirement (complete one)</i>		3
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH/PHILOS 571	Mathematical Logic	
<i>MATH Elective to reach required minimum of six courses for at least 18 credits</i>		6-12
<i>At least one course must be from:<sup>1</sup></i>		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/COMP SCI/ISYE/STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 567	Modern Number Theory	
MATH 570	Fundamentals of Set Theory	

MATH/ PHILOS 571	Mathematical Logic	
MATH 605	Stochastic Methods for Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Select remaining courses from:</i>		
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
MATH 319	Techniques in Ordinary Differential Equations	
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/ STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography	
MATH 443	Applied Linear Algebra	
MATH 467	Introduction to Number Theory	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	
<b>Programming and Computations Requirement (Four Courses distinct from the above for at least 12 credits)<sup>2</sup></b>		
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
Elective <sup>3</sup>		6-8
COMP SCI 412	Introduction to Numerical Methods	
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	
COMP SCI/E C E/ MATH 435	Introduction to Cryptography	
COMP SCI/ STAT 471	Introduction to Computational Statistics	
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	

COMP SCI/ MATH 513	Numerical Linear Algebra
COMP SCI/ MATH 514	Numerical Analysis
COMP SCI 520	Introduction to Theory of Computing
COMP SCI/E C E/ I SY E 524	Introduction to Optimization
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization
COMP SCI/ I SY E 526	Advanced Linear Programming
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning
COMP SCI/ E C E 533	Image Processing
COMP SCI 534	Computational Photography
COMP SCI 538	Introduction to the Theory and Design of Programming Languages
COMP SCI/E C E/ M E 539	Introduction to Artificial Neural Networks
COMP SCI 540	Introduction to Artificial Intelligence
COMP SCI 545	Natural Language and Computing
COMP SCI/I SY E/ M E 558	Introduction to Computational Geometry
COMP SCI 559	Computer Graphics
COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI/ B M I 576	Introduction to Bioinformatics
COMP SCI 577	Introduction to Algorithms
COMP SCI/ I SY E 635	Tools and Environments for Optimization
COMP SCI 642	Introduction to Information Security

**Total Credits****30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>4</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>5</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>6</sup>

## FOOTNOTES

1

This course must be distinct from the advanced mathematics requirement.

2

Courses below may have prerequisites outside of the requirements for this named option.

3

Any MATH course from the elective list above may be used in lieu of any of the following courses.

**4**

This includes any course with a MATH prefix (including those cross-listed with MATH) regardless of major program as well as only those non-MATH course explicitly listed in the tables above.

**5**

This includes any course with a MATH prefix (including those cross-listed with MATH) numbered 307 and above as well as only those non-MATH courses which appear in the tables above and carry the advanced LAS designation.

**6**

This includes only those courses with a MATH prefix (or crosslisted with MATH).

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
Literature Breadth	3	Literature Breadth	3
Communication A	3	Ethnic Studies	3
Foreign Language (if required)	4	Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>	4	MATH Required Linear Algebra	3
Humanities Breadth	3	Required Intermediate MATH	3
Communication B	3	Humanities Breadth	3
Physical Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
	<b>16</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
Intermediate MATH	3	Intermediate MATH	3
COMP SCI 300	3	COMP SCI 400	3

Social Sciences Breadth	3 L&S Breadth - Social Science	3
Biological Sciences Breadth	3 Biological Sciences Breadth	3
Elective	3 Elective	3
	<b>15</b>	<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Required Advanced MATH	3	Advanced MATH	3
Elective Programming/Computations Course	3	Elective Programming/Computations Course	3
Social Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

#### Total Credits 120

**1**

Students should declare the major upon the successful completion of this course

## MATHEMATICS: MATHEMATICS FOR SECONDARY EDUCATION

### REQUIREMENTS

The Mathematics Major for Secondary Education named option requires at least 8 distinct courses for at least 24 credits as described below. While a single courses may be used to fulfill more than one requirement, it will only contribute once to the total course/credit count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of 8 courses and at least 24 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Requirements (minimum of eight distinct courses for at least 24 credits)<sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-3
MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	

MATH 421	The Theory of Single Variable Calculus	
MATH 467	Introduction to Number Theory	
<i>Analysis (complete at least one)</i>		0-3
MATH 421	The Theory of Single Variable Calculus	
MATH 521	Analysis I	
<i>Modern Algebra (complete at least one)</i>		3
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
<i>Probability or Combinatorics (complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH/COMP SCI/STAT 475	Introduction to Combinatorics	
MATH 531	Probability Theory	
<i>Statistics</i>		3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
or STAT 301	Introduction to Statistical Methods	
or STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	
or STAT 324	Introductory Applied Statistics for Engineers	
or ECON 310	Statistics: Measurement in Economics	
<i>History of Mathematics</i>		3
MATH/HIST SCI 473	History of Mathematics	
<i>Geometry</i>		3
MATH 461	College Geometry I	
<i>Capstone course</i>		3
MATH/CURRIC 471	Mathematics for Secondary School Teachers	
<i>Advanced mathematics</i>		0-6
Additional advanced course if needed to reach at least two math courses above 500		
MATH/COMP SCI 513	Numerical Linear Algebra	
MATH/COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 551	Elementary Topology	
MATH 561	Differential Geometry	
MATH 567	Modern Number Theory	

MATH 570	Fundamentals of Set Theory
MATH/PHILOS 571	Mathematical Logic
MATH 619	Analysis of Partial Differential Equations
MATH 627	Introduction to Fourier Analysis
MATH 629	Introduction to Measure and Integration
MATH/ISYE/OTM/STAT 632	Introduction to Stochastic Processes

**Total Credits****24**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>2</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>3</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>4</sup>

## FOOTNOTES

**1**

Course options below may have prerequisites outside of those listed for this program.

**2**

This includes any course with a MATH prefix (including those cross-listed with MATH) regardless of its appearance in the tables above as well as only those specific non-MATH courses listed in the tables above.

**3**

This includes all MATH courses (including those crosslisted with MATH) which are numbered 307 and above, regardless of appearing in the course lists above, as well as only those non-MATH courses which appear in the lists above and carry the advanced LAS designation.

**4**

This includes only those courses with a MATH prefix (or cross-listed with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level courses, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

**Freshman**

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth	3	L&S Breadth - Literature	3
Communication A	3	Ethnic Studies	3
Foreign Language (if required)	4	Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH Required Linear Algebra	3
Humanities Breadth	3	MATH Required Probability or Combinatorics	3
Communication B	3	Humanities Breadth	3
Physical Science Breadth	3	Physical Science Breadth	3
Elective	3	Elective	3
	<b>16</b>		<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
MATH 461		3 MATH Required Statistics	3
MATH Required Analysis	3	MATH Required History of Mathematics	3
Social Sciences Breadth	3	Social Science Breadth	3
Biological Sciences Breadth	3	Biological Sciences Breadth	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
MATH Required Algebra	3	MATH Required Advance course or Elective	3
Elective	3	MATH/CURRIC 471	3
Social Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15</b>		<b>15</b>

**Total Credits 120****FOOTNOTES****1**

Students should declare their major upon the successful completion of this course

# MATHEMATICS: MATHEMATICS FOR STATISTICAL ANALYSIS AND RISK ASSESSMENT

**REQUIREMENTS**

The Mathematics for Statistical Analysis and Risk Assessment program requires 10 distinct courses for at least 30 credits as described below. Note that while some courses may be used to fulfill more than one requirement it is still considered only a single course and may only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)<sup>1</sup></b>		
<i>Linear Algebra</i>		3-5
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
or MATH 341	Linear Algebra	
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<i>Probability (Complete at least one)</i>		3
MATH/STAT 431	Introduction to the Theory of Probability	
or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I	
MATH 531	Probability Theory	
<i>Statistics<sup>1</sup></i>		3
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II (Statistics)	
<i>Intermediate Mathematics Requirement (complete at least one)</i>		0-6
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 421	The Theory of Single Variable Calculus	
<i>Advanced Mathematics Requirement (select one)</i>		3
MATH/COMP SCI 514	Numerical Analysis	
MATH 521	Analysis I	
MATH 531	Probability Theory	

MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
<i>Electives to reach required six courses for at least 18 credits in MATH</i>		3-6
<i>At least one elective must come from:</i> <sup>2</sup>		
MATH/ COMP SCI 513	Numerical Linear Algebra	
MATH/ COMP SCI 514	Numerical Analysis	
MATH 519	Ordinary Differential Equations	
MATH 521	Analysis I	
MATH 522	Analysis II	
MATH/ COMP SCI/I SY E/ STAT 525	Linear Optimization	
MATH 531	Probability Theory	
MATH 535	Mathematical Methods in Data Science	
MATH 540	Linear Algebra II	
MATH 541	Modern Algebra	
MATH 542	Modern Algebra	
MATH 605	Stochastic Methods for Biology	
MATH 619	Analysis of Partial Differential Equations	
MATH 627	Introduction to Fourier Analysis	
MATH 629	Introduction to Measure and Integration	
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes	
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus	
<i>Remaining courses/credits may be selected from:</i>		
MATH 319	Techniques in Ordinary Differential Equations	
MATH 321	Applied Mathematical Analysis	
MATH 322	Applied Mathematical Analysis	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH 421	The Theory of Single Variable Calculus	
MATH/ COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization	
MATH/ COMP SCI/ E C E 435	Introduction to Cryptography	
MATH 443	Applied Linear Algebra	
MATH 467	Introduction to Number Theory	
MATH/ COMP SCI/ STAT 475	Introduction to Combinatorics	

**Statistics/Risk Requirement (Four Courses distinct from the above for at least 12 credits)**<sup>3</sup>

<i>Select a distinct introduction course or sequence:</i>		3-6
<i>Actuarial Sciences:</i>		
ACT SCI 303	Theory of Interest	
<i>Statistics:</i>		
STAT 333 & STAT/M E 424	Applied Regression Analysis and Statistical Experimental Design	
<i>Data Science:</i>		
STAT 340 & STAT/M E 424	Data Science Modeling II and Statistical Experimental Design	
<i>Select remaining courses/credits from:</i> <sup>4</sup>		6-14
ACT SCI 650	Actuarial Mathematics I	
ACT SCI 651	Actuarial Mathematics II	
ACT SCI 652	Loss Models I	
ACT SCI 653	Loss Models II	
ACT SCI 654	Regression and Time Series for Actuaries	
ACT SCI 655	Health Analytics	
GEN BUS 656	Machine Learning for Business Analytics	
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT 451	Introduction to Machine Learning and Statistical Pattern Classification	
STAT 453	Introduction to Deep Learning and Generative Models	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/ COMP SCI 471	Introduction to Computational Statistics	
STAT/COMP SCI/ MATH 475	Introduction to Combinatorics	
STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization	
STAT 575	Statistical Methods for Spatial Data	
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT/B M I 642	Statistical Methods for Epidemiology	

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all MATH courses and courses eligible for the major.<sup>5</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>6</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>7</sup>



## FOOTNOTES

1

Students taking STAT 312 to satisfy the Statistics requirement will not be able to use this course towards the six courses/18 credits of MATH courses.

2

This course must be distinct from the advanced mathematics requirement.

3

The courses which follow may have prerequisites outside of this program.

4

Any MATH course from the elective list above may be used in lieu of any of the following courses.

5

This includes any course with a MATH prefix (or cross-listed with MATH) regardless of its appearance in the tables above and any non-MATH course explicitly listed in the tables above.

6

This includes any MATH course (including those crosslisted with MATH) which are numbered 307 and above, regardless of its appearance in the tables above, as well as only those non-MATH course which appear in the tables above and have the advanced LAS attribute.

7

This includes any MATH course (and those crosslisted with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221		5 MATH 222	4
Literature Breadth		3 Literature Breadth	3
Communication A		3 Ethnic Studies	3
Foreign Language <sup>if required</sup>		4 Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>		4 MATH Required Linear Algebra	3
Humanities Breadth		3 MATH required Probability	3
Communication B		3 Humanities Breadth	3
Physical Science Breadth		3 Physical Science Breadth	3
Elective		3 Elective	3
	<b>16</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
MATH required Statistics		3 Required Intermediate MATH	3
Data/Risk course		3 Data/Risk course	3
Social Sciences Breadth		3 Social Science Breadth	3
Biological Sciences Breadth		3 Biological Sciences Breadth	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
Required Advanced MATH		3 Advanced MATH Elective	3
Data/Risk course		3 Data/Risk course	3
Social Science Breadth		3 Social Science Breadth	3
Elective		3 Elective	3
Elective		3 Elective	3
	<b>15</b>		<b>15</b>

#### Total Credits 120

1

Students should declare their major upon the successful completion of this course

## MATHEMATICS: MATHEMATICS FOR THE PHYSICAL AND BIOLOGICAL SCIENCES

### REQUIREMENTS

The Mathematics for the Physical and Biological Sciences program requires 10 distinct courses for at least 30 credits as described below. While a single courses may be used to fulfill more than one requirement, it will only contribute once to the total course count. Finally, at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement (i.e.: minimum of ten courses and at least 30 credits): Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375), Intro Differential Equations (MATH 319, MATH 320 or MATH 376), and Intro Probability (MATH/STAT 309 or MATH/STAT 431).

Code	Title	Credits		
<b>Core Math Requirement (minimum of six distinct MATH courses for at least 18 credits)<sup>1</sup></b>			MATH 535	Mathematical Methods in Data Science
<i>Linear Algebra</i> 3-5			MATH 540	Linear Algebra II
MATH 320	Linear Algebra and Differential Equations		MATH 541	Modern Algebra
or MATH 340	Elementary Matrix and Linear Algebra		MATH 542	Modern Algebra
or MATH 341	Linear Algebra		MATH 551	Elementary Topology
or MATH 375	Topics in Multi-Variable Calculus and Linear Algebra		MATH 552	Elementary Geometric and Algebraic Topology
<i>Differential Equations</i> 0-5			MATH 561	Differential Geometry
MATH 319	Techniques in Ordinary Differential Equations		MATH 567	Modern Number Theory
or MATH 320	Linear Algebra and Differential Equations		MATH 570	Fundamentals of Set Theory
or MATH 322	Applied Mathematical Analysis		MATH/PHILOS 571	Mathematical Logic
or MATH 376	Topics in Multi-Variable Calculus and Differential Equations		MATH 605	Stochastic Methods for Biology
or MATH 415	Applied Dynamical Systems, Chaos and Modeling		MATH/B M I/ BIOCHEM/ BMOLCHEM 609	Mathematical Methods for Systems Biology
or MATH 519	Ordinary Differential Equations		MATH 619	Analysis of Partial Differential Equations
<i>Intermediate Mathematics Requirement (complete one)</i> 0-6			MATH 623	Complex Analysis
MATH 321 & MATH 322	Applied Mathematical Analysis and Applied Mathematical Analysis		MATH 627	Introduction to Fourier Analysis
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra		MATH 629	Introduction to Measure and Integration
MATH 341	Linear Algebra		MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 421	The Theory of Single Variable Calculus		MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
<i>Advanced Mathematics Requirement (complete one)</i> 3			<i>Remaining courses/credits may be from:</i>	
MATH/COMP SCI 514	Numerical Analysis		MATH/STAT 310	Introduction to Probability and Mathematical Statistics II
MATH 519	Ordinary Differential Equations		MATH 321	Applied Mathematical Analysis
MATH 521	Analysis I		MATH 322	Applied Mathematical Analysis
MATH 531	Probability Theory		MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH 540	Linear Algebra II		MATH 421	The Theory of Single Variable Calculus
MATH 541	Modern Algebra		MATH/COMP SCI/ I SY E 425	Introduction to Combinatorial Optimization
MATH 551	Elementary Topology		MATH/STAT 431	Introduction to the Theory of Probability
MATH 561	Differential Geometry		or MATH/STAT 309	Introduction to Probability and Mathematical Statistics I
MATH 619	Analysis of Partial Differential Equations		MATH 443	Applied Linear Algebra
MATH 623	Complex Analysis		MATH/COMP SCI/ STAT 475	Introduction to Combinatorics
<i>MATH Elective to reach six courses and 18 credits</i> 3-9			<b>Natural/Biological Sciences Requirement (Four courses distinct from the above for at least 12 credits)<sup>1</sup></b> 12-16	
<i>At least one from:<sup>1</sup></i>			PHYSICS 247	A Modern Introduction to Physics
MATH/COMP SCI 513	Numerical Linear Algebra		or PHYSICS 207	General Physics
MATH/COMP SCI 514	Numerical Analysis		or PHYSICS 201	General Physics
MATH 519	Ordinary Differential Equations		or E M A 201	Statics
MATH 521	Analysis I		PHYSICS 248	A Modern Introduction to Physics
MATH 522	Analysis II			
MATH/COMP SCI/ I SY E/ STAT 525	Linear Optimization			
MATH 531	Probability Theory			

or PHYSICS 208General Physics		PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiation Physics and Dosimetry
or PHYSICS 202General Physics		PHYSICS/E C E/ N E 525	Introduction to Plasmas
<i>Two additional courses from the following:</i> <sup>2</sup>		PHYSICS 551	Solid State Physics
ASTRON 310	Stellar Astrophysics	PHYSICS 623	Electronic Aids to Measurement
ASTRON 320	The Interstellar Medium	PHYSICS 625	Applied Optics
ATM OCN 310	Dynamics of the Atmosphere and Ocean I	STAT/MATH 310	Introduction to Probability and Mathematical Statistics II
ATM OCN 311	Dynamics of the Atmosphere and Ocean II	or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
ATM OCN/ GEOG 323	Science of Climate Change	STAT 333	Applied Regression Analysis
ATM OCN 330	Physics of the Atmosphere and Ocean I	STAT 349	Introduction to Time Series
ATM OCN 340	Physics of the Atmosphere and Ocean II	STAT 351	Introductory Nonparametric Statistics
BIOCORE 383	Cellular Biology	STAT 411	An Introduction to Sample Survey Theory and Methods
CHEM 561	Physical Chemistry	STAT 421	Applied Categorical Data Analysis
or CHEM 565	Biophysical Chemistry	STAT/M E 424	Statistical Experimental Design
CHEM 562	Physical Chemistry	STAT/MATH 431	Introduction to the Theory of Probability
COMP SCI 300	Programming II	or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I
COMP SCI 310	Problem Solving Using Computers	or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
COMP SCI 320	Data Science Programming II	STAT 456	Applied Multivariate Analysis
COMP SCI 400	Programming III	STAT 461	Financial Statistics
COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization	STAT/ COMP SCI 471	Introduction to Computational Statistics
COMP SCI/ MATH/STAT 475	Introduction to Combinatorics	STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
COMP SCI/ MATH 513	Numerical Linear Algebra	STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization
COMP SCI/ MATH 514	Numerical Analysis	STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization	BIOCHEM 570	Computational Modeling of Biological Systems
GEOSCI/ G L E 350	Introduction to Geophysics: The Dynamic Earth	BIOCHEM/B M I/ BMOLCHEM/ MATH 609	Mathematical Methods for Systems Biology
GEOSCI/ CIV ENGR/ ENVIR ST/ G L E 444	Practical Applications of GPS Surveying	BIOCHEM/ BOTANY 621	Plant Biochemistry
GEOSCI/ G L E 537	Quantitative Methods for Geoscience	BIOCHEM 630	
GEOSCI/ G L E 594	Introduction to Applied Geophysics	BSE 249	Engineering Principles for Biological Systems
GEOSCI/ G L E 627	Hydrogeology	BSE 349	Quantitative Techniques for Biological Systems
PHYSICS 249	A Modern Introduction to Physics	BSE 351	Structural Design for Agricultural Facilities
or PHYSICS 241	Introduction to Modern Physics	BSE 364	Engineering Properties of Food and Biological Materials
or PHYSICS 205	Modern Physics for Engineers	BSE 365	Measurements and Instrumentation for Biological Systems
PHYSICS 311	Mechanics	BSE/M E 475	Engineering Principles of Agricultural Machinery
PHYSICS 321	Electric Circuits and Electronics		
PHYSICS 322	Electromagnetic Fields		
PHYSICS 323	Electromagnetic Fields		
PHYSICS 325	Optics		
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems		

B M E 310	Bioinstrumentation	E M A/E P 547	Engineering Analysis I
B M E 315	Biomechanics	E M A/E P 548	Engineering Analysis II
B M E 325	Applied Statistics for Biomedical Engineers	E M A/ ASTRON 550	Astrodynamics
B M E 330	Engineering Principles of Molecules, Cells, and Tissues	I SY E 320	Simulation and Probabilistic Modeling
B M E/H ONCOL/ MED PHYS/ PHYSICS 501	Radiation Physics and Dosimetry	I SY E 323	Operations Research–Deterministic Modeling
B M E/M E 505	Biofluidics	I SY E/CIV ENGR/ N E 460	Uncertainty Analysis for Engineers
B M E 520	Stem Cell Bioengineering	I SY E 516	Introduction to Decision Analysis
B M E/ MED PHYS 530	Medical Imaging Systems	I SY E/COMP SCI/ E C E 524	Introduction to Optimization
B M E/ MED PHYS 535	Introduction to Energy–Tissue Interactions	I SY E/COMP SCI/ MATH/STAT 525	Linear Optimization
B M E 556	Systems Biology: Mammalian Signaling Networks	I SY E/ COMP SCI 526	Advanced Linear Programming
B M E/ MED PHYS 566	Physics of Radiotherapy	M S & E 330	Thermodynamics of Materials
B M E/ MED PHYS 567	The Physics of Diagnostic Radiology	M S & E 331	Transport Phenomena in Materials
B M E/ MED PHYS 573	Mathematical Methods in Medical Physics	M S & E 332	Macroprocessing of Materials
B M E/M E 615	Tissue Mechanics	M S & E 434	Introduction to Thin-Film Deposition Processes
CBE 255	Introduction to Chemical Process Modeling	M S & E 460	Introduction to Computational Materials Science and Engineering
CBE 310	Chemical Process Thermodynamics	M E 331	Computer-Aided Engineering
CBE 320	Introductory Transport Phenomena	M E 340	Dynamic Systems
CBE 326	Momentum and Heat Transfer Operations	M E 346	Introduction to Feedback Control for Mechanical Engineers
CIV ENGR 310	Fluid Mechanics	M E 361	Thermodynamics
CIV ENGR 311	Hydroscience	M E/STAT 424	Statistical Experimental Design
CIV ENGR 322	Environmental Engineering Processes	N E 305	Fundamentals of Nuclear Engineering
CIV ENGR 340	Structural Analysis I	N E/E C E/ PHYSICS 525	Introduction to Plasmas
CIV ENGR 370	Transportation Engineering	N E/I SY E 574	Methods for Probabilistic Risk Analysis of Nuclear Power Plants
CIV ENGR/I SY E/ N E 460	Uncertainty Analysis for Engineers	MED PHYS/ B M E/H ONCOL/ PHYSICS 501	Radiation Physics and Dosimetry
E C E 220	Electrodynamics I	MED PHYS/ B M E 530	Medical Imaging Systems
E C E 230	Circuit Analysis	MED PHYS/ B M E 535	Introduction to Energy–Tissue Interactions
E C E/ PHYSICS 235	Introduction to Solid State Electronics	MED PHYS 563	Radionuclides in Medicine and Biology
E C E 320	Electrodynamics II	MED PHYS/ B M E 567	The Physics of Diagnostic Radiology
E C E 330	Signals and Systems	MED PHYS/ N E 569	Health Physics and Biological Effects
E C E/COMP SCI/ MATH 435	Introduction to Cryptography		
E C E/MATH 641	Introduction to Error-Correcting Codes		
E M A 202 or M E 240	Dynamics		
E M A 303 or M E 306	Mechanics of Materials		
E M A 405	Practicum in Finite Elements		
E M A/E P 471	Intermediate Problem Solving for Engineers		
		<b>Total Credits</b>	<b>30</b>

# RESIDENCY AND QUALITY OF WORK

- 2.000 GPA for all MATH courses and courses eligible for the major.<sup>3</sup>
- 2.000 GPA on at least 15 credits of upper level credit in the major.<sup>4</sup>
- 15 credits in MATH in the major taken on the UW-Madison campus.<sup>5</sup>

## FOOTNOTES

1

Courses listed in the tables below may have prerequisites outside of the program requirements.

2

Any MATH course from the elective list above may be used in lieu of any of the following courses.

3

This includes any course with the MATH prefix (or cross-listed with MATH) regardless of appearing in the tables above as well as only those non-MATH courses which appear in the tables above.

4

This includes any MATH courses (or courses cross-listed with MATH) numbered 307 and above, regardless of appearing in the tables above, as well as any non-MATH course listed in the tables above which carries the advanced LAS designation.

5

This includes any course with the MATH prefix (or cross-listed with MATH) numbered 307 and above.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

In general, your four year plan in mathematics should be organized along the following sequence: 1) Calculus, 2) Linear Algebra, 3) Required Intermediate level course, 4) Additional intermediate level courses as needed, 5) Required advanced level course, 6) Additional advanced level courses.

#### Freshman

Fall	Credits	Spring	Credits
MATH 221	5	MATH 222	4
Literature Breadth	3	Literature Breadth	3
Communication A	3	Ethnic Studies	3
Foreign Language <sup>if required</sup>	4	Foreign Language (if required)	4
	<b>15</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
MATH 234 <sup>1</sup>	4	MATH 321	3
MATH 320	3	Humanities Breadth	3
Humanities Breadth	3	Elective	6
Communication B	3		
Elective	3		
	<b>16</b>		<b>12</b>

#### Junior

Fall	Credits	Spring	Credits
MATH 322	3	Intermediate MATH elective	3
PHYSICS 247, 207, 201, or E M A 201	5	PHYSICS 248, 208, or 202	5
Social Sciences Breadth	3	Social Science Breadth	3
Biological Sciences Breadth	3	Biological Sciences Breadth	3
Elective	3	Elective	3
	<b>17</b>		<b>17</b>

#### Senior

Fall	Credits	Spring	Credits
Required Advanced MATH	3	Advanced MATH	3
Natural/Biological requirement elective	3	Natural/Biological requirement elective	3
Social Science Breadth	3	Social Science Breadth	3
Elective	6	Elective	5
	<b>15</b>		<b>14</b>

**Total Credits 120**

## FOOTNOTES

1

Students should declare their major upon the successful completion of this course

## MATHEMATICS, CERTIFICATE

The primary purpose of the mathematics certificate is to serve those students who wish to enhance their content knowledge in mathematics but are unable to complete the requirements of a second major.

## HOW TO GET IN

Students must meet with a math advisor in order to declare and to discuss course selection. Math advisor information is provided at the math advising page (<http://www.math.wisc.edu/undergraduate/advising/>).

## REQUIREMENTS

The certificate requires a minimum of 12 credits. Note that at most one course from each of the following groupings may be used to fulfill the minimum credit requirement: Intro Linear Algebra (MATH 320, MATH 340, MATH 341, MATH 375 ), Intro Differential

Equations (MATH 319, MATH 320, MATH 376), and Intro Probability (MATH/STAT 309, MATH 331, MATH/STAT 431).

Code	Title	Credits
<b>Requirements</b> <sup>1,2</sup>		
3 credits	MATH 400–699	3
9 credits from	MATH 307–699	9
<b>Total Credits</b>		<b>12</b>

### Footnotes

1

Excluding MATH/CURRIC 471.

2

At most one (1) course each from these groups may apply:

- Linear Algebra: MATH 320, MATH 340, MATH 341, MATH 375
- Differential Equations: MATH 319, MATH 320, MATH 376
- Probability: MATH/STAT 309, MATH 331, MATH/STAT 431

## RESIDENCE & QUALITY OF WORK

- At least 9 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW–Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. State, explain, and apply the principal results, definitions, and theorems of a wide collection of mathematical areas.
2. Acquire a diverse set of skills and strategies in mathematical reasoning/problem solving.
3. Use mathematics to model and analyze problems in other disciplines.

## ADVISING AND CAREERS

### ADVISING

Students who are interested in the math major should visit a faculty advisor. Information about current advisor availability is on the Math advising page (<https://www.math.wisc.edu/undergraduate/advising/>).

For advice on college algebra, pre-calculus, and calculus, see the placement advising pages (<https://www.math.wisc.edu/undergraduate/placement/>) of the department.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) – a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW–Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please visit the Math Department website (<https://math.wisc.edu>) for a complete list of faculty (<https://math.wisc.edu/math-faculty/>) and instructional academic staff (<https://math.wisc.edu/academic-staff/>).

## MEAD WITTER SCHOOL OF MUSIC

## VALUES AND EDUCATIONAL PRIORITIES

At the Mead Witter School of Music

- we teach by example offering participatory, mentor-driven education;
- we provide individualized instruction and flexible curricula that encourage students to find their own musical pathways;
- we foster musical excellence and high academic standards;
- our faculty exhibit the best of their respective fields, are deeply engaged in artistic scholarship and research, and are committed to teaching at all levels;
- we whole-heartedly embrace the Wisconsin Idea;

- our department is a dynamic educational community, part of a large and vibrant research university within a city that values and supports the arts.

The Mead Witter School of Music enriches students' educational experience by hosting guest artists and scholars for master classes, recitals, colloquia, seminars, and festivals. Its performing organizations and ensembles perform more than 350 recitals and concerts every year, making a significant contribution to the cultural life of the university and the wider Madison community. Facilities specifically designed for music study and performance offer excellent resources for students to pursue their interests.

In addition to a thriving undergraduate student body, music students have the advantage of working side-by-side with master's-level and doctoral-level music students. Working collegially in class and studio, making music together on stage and off, and building professional relationships across program boundaries all enable the sharing of expertise, experience, and perspectives and add immeasurably to every student's development.

The music degree programs are demanding and require care in taking courses in the proper sequence. Graduation could be delayed if a course is not taken in the appropriate semester. Refer to the Requirements tab for details on the coursework and sequences of study in specific majors.

Mead Witter School of Music views its goals and objectives as complementary to those of the University of Wisconsin–Madison, which include "to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life."

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## PEOPLE AND FACILITIES

The greatest asset of Mead Witter School of Music is its people—staff, faculty, and students—who are daily immersed in learning, building, researching, writing, and making music. Mentoring is the core of our teaching, manifest in one-on-one applied instruction as well as in small-group coaching and classes. Undergraduate students will build professional relationships with many faculty, form friendships with peers across the boundaries of degree programs, and collaborate with staff in addressing the practical matters of academic study. Extensive information on faculty, including biographies, is available here.

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of online research databases as well as millions of articles, books, and streaming media. All genres of music are represented, with notably strong collections in Americana and ethnic music. Nationally known special collections include the Tams–Witmark Collection, a treasury of early American musical theater materials, and the Wisconsin Music Archives.

## CHOOSING A MUSIC MAJOR

Mead Witter School of Music offers several degree programs at the undergraduate level. The bachelor of arts and bachelor of science curricula are liberal arts majors in the College of Letters & Science and are excellent programs for students interested in exploring the wide array of course offerings in the college or in two or more major areas of study. The bachelor of music curriculum is a professional degree in music, with 75 percent of total coursework within the Mead Witter School of Music. Students in this program are looking for depth in performance study along with a large complement of other musical studies at advanced level. Both programs may provide a foundation for graduate study and sometimes for a career in music. We encourage conversations with Mead Witter School of Music professors at any point during your first two years as a music major to learn as much as possible about options that are available to you.

## GRADES AND ADVISING

Mead Witter School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic procedures is available in the College of Letters & Science section and the opening section of this Guide.

The undergraduate advisor of the School of Music serves as the advisor for every music major. The advisor maintains records and assists students in determining an appropriate course schedule each semester.

## MUSIC COURSES FOR NON-MUSIC MAJORS

A variety of courses in music theory, music history and literature, as well as orchestra, chorus, band, and some ensembles, are open to students from other departments, schools, and colleges. Students should review the specific regulations of their degree program to determine whether music courses can fulfill breadth requirements. The Course Guide (<http://public.my.wisc.edu/portal/render.userLayoutRootNode.uP>) indicates music courses that are open to nonmusic majors.

Music performance courses are generally filled by music majors. Fundamentals courses (007–036) are for instrumental music education majors only. Class Piano (101–104) is for music majors only. Basic courses require the ability to read music and to pass a prepared audition; in addition, Basic Guitar requires previous experience with classical guitar. Students outside the School of Music may audition to be on a waiting list for group or individual voice study with a teaching assistant (MUS PERF 143 Introduction to Performance: Voice or MUS PERF 144 Vocal Instruction for Non-Voice Majors). Contact the course instructor for more information about course requirements and admission criteria. The School of Music offers private music lessons (not for university credit and with separate costs) for non-music majors through the Community Music Lessons (<http://www.music.wisc.edu/CML/>) program.

Regulation of music courses available for degree credit varies among the divisions of the university. Students should consult their major department for specific advice.

Courses open to non-music majors that satisfy the university's humanities breadth requirements:

Code	Title	Credits
MUSIC 101	The Musical Experience	3
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	3
MUSIC 104	Study Abroad: Elementary Music Appreciation/Theory/History	1-3
MUSIC 105	Storytelling on Stage: Introduction to Musical Theater and Opera	3
MUSIC 106	The Symphony	3
MUSIC 113	Music in Performance	1
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC 204	Study Abroad: Intermediate Music Theory or History	1-3
MUSIC 205	The Big Bands	2
MUSIC 206	The Legendary Performers	2
MUSIC 305	Popular Music in the USA: 1920-1950	2
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC 461	Collegium Musicum	1

## SPECIAL STUDENTS

Persons who are interested in courses offered by the School of Music but who are not working toward a UW-Madison degree should contact the Division of Continuing Studies, 21 North Park Street, Madison, WI 53715; 608-263-6960. Enrollment is limited in music courses, and priority is given to UW-Madison undergraduate degree candidates.

## DEGREES/MAJORS/CERTIFICATES

### UNDERGRADUATE DEGREE PROGRAMS

Mead Witter School of Music offers four principal degree options for the music major. Each requires a performance audition for admission. Continuation to upper-level study in these programs is contingent upon faculty approval and upon specific GPA minimums in several categories. Refer to the Requirements tab in each program description for details.

**Bachelor of Music: Performance**, with concentration in Brass, Composition, Guitar, Harp, Jazz Studies, Organ, Percussion, Piano, Strings, Voice, or Woodwinds.

**Bachelor of Music: Music Education**, with certification in General and Instrumental Music (Early Childhood through Adolescence), or General and Vocal Music (Early Childhood through Adolescence).

**Bachelor of Arts or Bachelor of Science**, with a music major: options in performance, history, theory, or an individualized music curriculum. The individualized music curriculum can be designed with an emphasis in composition or jazz studies. The history and theory options are under review and may be changed. During this time, the School of Music is not admitting new students to these options.

- Music, B.A. (p. 1201)
- Music, B.S. (p. 1213)
- Music: Education, B.M. (p. 1226)
- Music: Performance, B.M. (p. 1235)

## PEOPLE

**Faculty:** *Professors* Cook (director), Calderón, Chisholm, Di Sanza, Dominguez, Fischer, Fulmer, Hetzler, Johnson, Karp, Perry, Rowe, Schwendinger, Taylor, Teeple, Thimmig, Vallon, Wallmann; *Associate Professors* Butler, Farah, Grabois, Nelson, Ronis; *Assistant Professors* Chana, Cornish, Flowers, Laurenz, Lee, Lewis, Rathgeber, Sans, Walsh, Weinstein-Reimann; *Marching Band Director* Pompey; *Teaching Faculty* Brailey, Curry, Gladstone, Gonzalez, Koester, Pompey, Purdue, Rottmayer, Weinholts, Wohn; *Faculty Associate* Rich; *Lecturers* Lee, McCullough, Mok, Patenaude, Tran, Waldo; *Teaching Specialists* Hammes, Ross

The faculty of the Mead Witter School of Music is a distinguished group of educators, performing musicians, and active scholars. The backgrounds of performance faculty include rich experiences as professional musicians, researchers, recording artists, and entrepreneurs. Faculty in music education have particular insight into their field as a result of their backgrounds as school educators, performers, and scholars. In areas such as music theory and musicology, the musical community has high regard for the past and current contributions to the study of musical theory, historical perspectives on music, the role of music in societies around the world, and the unique contributions of American musicians. Teaching is a priority for the faculty, who are readily accessible to students for advice and support. Faculty, staff, and students cooperate in extraordinary ways with joint ventures that reach across disciplines both in research or instruction.

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall #9701, Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

### SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision. Accompanying each award notification will be a Letter of Commitment, to be signed and returned to the School of Music. Criteria used for awarding scholarships are:



1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most Mead Witter School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.000 grade point average. Please see the Mead Witter School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## MUSIC, B.A.

### VALUES AND EDUCATIONAL PRIORITIES

At the Mead Witter School of Music

- we teach by example offering participatory, mentor-driven education;
- we provide individualized instruction and flexible curricula that encourage students to find their own musical pathways;
- we foster musical excellence and high academic standards;
- our faculty exhibit the best of their respective fields, are deeply engaged in artistic scholarship and research, and are committed to teaching at all levels;
- we whole-heartedly embrace the Wisconsin Idea;
- our department is a dynamic educational community, part of a large and vibrant research university within a city that values and supports the arts.

The Mead Witter School of Music enriches students' educational experience by hosting guest artists and scholars for master classes, recitals, colloquia, seminars, and festivals. Its performing organizations and ensembles perform more than 350 recitals and concerts every year, making a significant contribution to the cultural life of the university and the wider Madison community. Facilities specifically designed for music study and performance offer excellent resources for students to pursue their interests.

In addition to a thriving undergraduate student body, music students have the advantage of working side-by-side with master's-level and doctoral-level music students. Working collegially in class and studio, making music together on stage and off, and building professional relationships across program boundaries all enable the sharing of expertise, experience, and perspectives and add immeasurably to every student's development.

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Mead Witter School of Music views its goals and objectives as complementary to those of the University of Wisconsin–Madison, which include "to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life."

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## CHOOSING A MUSIC MAJOR

Mead Witter School of Music offers several degree programs at the undergraduate level. The bachelor of arts and bachelor of science curricula are liberal arts majors in the College of Letters & Science and are excellent programs for students interested in exploring the wide array of course offerings in the college or in two or more major areas of study. In these programs music courses comprise one-third of a student's work toward the degree. By comparison, the bachelor of music curriculum, a professional degree in music, requires 75 percent of total coursework within the Mead Witter School of Music. Students in this program are looking for depth in performance study along with a large complement of other musical studies at advanced level. A number of alumni from both B.A. and B.S. have completed two majors at UW–Madison. Both of these programs may provide a foundation for graduate study and sometimes for a career in music. We encourage conversations with Mead Witter School of Music professors at any point during your first two years as a music major to learn as much as possible about options that are available to you.

## GRADES AND ADVISING

Mead Witter School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic procedures/policies is available in the College of Letters & Science section

of this *Guide* under the policies and regulations (<http://guide.wisc.edu/undergraduate/letters-science/#policiesandregulationstext>) tab.

The undergraduate advisor of the Mead Witter School of Music serves as the advisor for every music major. The advisor maintains records and assists students in determining an appropriate course schedule each semester.

## HOW TO GET IN

### ADMISSION PROCEDURES

To be admitted to the Mead Witter School of Music a student needs to apply to and be admitted by both UW-Madison and the Mead Witter School of Music:

- Prospective (new or transfer) and re-entry students should apply to UW-Madison through the Office of Admissions and Recruitment (<https://admissions.wisc.edu/>).
- All students must also complete an application and pass an audition. See the Mead Witter School of Music website (<https://music.wisc.edu/undergraduate-admissions/>) for more information. Questions about the Music application and audition process should be directed to the Music Undergraduate Audition and Admissions Coordinator ([admissions@music.wisc.edu](mailto:admissions@music.wisc.edu)).

### DECLARING A MUSIC MAJOR

Students admitted to UW-Madison and the Mead Witter School of Music will be declared in their music major or music degree program.

All students must make satisfactory progress, as described below, to continue in their major or degree program. Students not meeting these requirements should meet with the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) to discuss their options for continuing in the Mead Witter School of Music.

### MUSIC MAJOR CONTINUATION REQUIREMENTS

Students must meet all of the requirements below to continue in the program. Students not meeting any one of these requirements will be removed from the program and must choose a new major. Contact the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) for consideration of extenuating circumstances or if the student is considering a leave of absence (such as family emergency, personal wellness, study abroad, or approved accommodations)

#### (1) ENROLLMENT REQUIREMENTS

- Enroll every fall and spring semester in a course that meets the Performance Study Requirements, until that requirement is completed.
- Enroll in MUSIC 121 and MUSIC 171 to begin the music theory/history sequence in the first possible fall semester after declaration.

#### (2) PERFORMANCE STUDY JURY AND PROGRESS REPORT

At least once a year, students must pass a performance jury with their major instrument. The purpose of this jury will be to evaluate performance study progress and to set goals for the coming year. Students who do

not pass will receive guidance about making improvements and a warning letter and will have a semester to work with their professor to make improvements needed to remain in the program.

#### (3) PROGRESSION TO 400-LEVEL PERFORMANCE STUDY

At the end of the fourth semester of enrollment in Performance Study, students will be evaluated for permission to advance to 400-level performance study. Students who do not meet progression requirements to advance to 400-level performance study may be given an additional semester to meet those requirements.

#### (4) MEET GPA REQUIREMENTS IN THREE AREAS:

- 2.000 overall cumulative GPA
- 2.000 cumulative GPA in all MUSIC and MUSIC PERFORMANCE courses
- 2.000 cumulative GPA in music theory (MUSIC 121, MUSIC 171, MUSIC 122, MUSIC 172, MUSIC 221, MUSIC 221 and MUSIC 271) and music history (MUSIC 211 and MUSIC 212)

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

#### Requirements for the Major

Students who do not declare a Named Option must complete the requirements below.

View as listView as grid

### • MUSIC: PERFORMANCE (P. 1210)

Student must work with a School of Music faculty member to create a cohesive plan to meet requirements; the plan must be approved by the appropriate faculty area committee(s) and by the Curriculum Committee.

### PERFORMANCE STUDY - THREE SEMESTERS IN ONE OF THE FOLLOWING AREAS:

Code	Title	Credits
<i>Bass</i>		
MUS PERF 237	Elementary/Intermediate Double Bass	2-4
or MUS PERF 437	Advanced Double Bass	
<i>Bassoon</i>		
MUS PERF 215	Elementary/Intermediate Bassoon	2-4
or MUS PERF 415	Advanced Bassoon	
<i>Cello</i>		
MUS PERF 235	Elementary/Intermediate Cello	2-4
or MUS PERF 435	Advanced Cello	
<i>Clarinet</i>		
MUS PERF 211	Elementary/Intermediate Clarinet	2-4
or MUS PERF 411	Advanced Clarinet	
<i>Euphonium</i>		
MUS PERF 223	Elementary/Intermediate Euphonium	2-4
or MUS PERF 423	Advanced Euphonium	
<i>Flute</i>		
MUS PERF 207	Elementary/Intermediate Flute	2-4
or MUS PERF 407	Advanced Flute	
<i>Guitar</i>		
MUS PERF 240	Elementary/Intermediate Guitar	2-4
or MUS PERF 440	Advanced Guitar	
<i>Harp</i>		
MUS PERF 239	Elementary/Intermediate Harp	2-4
or MUS PERF 439	Advanced Harp	
<i>Harpstring</i>		
MUS PERF 202	Elementary/Intermediate Harpstring	2-4
or MUS PERF 402	Advanced Harpstring	
<i>Horn</i>		
MUS PERF 217	Elementary/Intermediate Horn	2-4
or MUS PERF 417	Advanced Horn	
<i>Percussion</i>		
MUS PERF 227	Elementary/Intermediate Percussion	2-4
or MUS PERF 427	Advanced Percussion	
<i>Piano</i>		
MUS PERF 201	Elementary/Intermediate Piano	2-4
or MUS PERF 401	Advanced Piano	
<i>Oboe</i>		
MUS PERF 209	Elementary/Intermediate Oboe	2-4
or MUS PERF 409	Advanced Oboe	
<i>Organ</i>		
MUS PERF 203	Elementary/Intermediate Organ	2-4
or MUS PERF 403	Advanced Organ	

<i>Saxophone</i>		
MUS PERF 213	Elementary/Intermediate Saxophone	2-4
or MUS PERF 413	Advanced Saxophone	
<i>Trombone</i>		
MUS PERF 221	Elementary/Intermediate Trombone	2-4
or MUS PERF 421	Advanced Trombone	
<i>Trumpet</i>		
MUS PERF 219	Elementary/Intermediate Trumpet	2-4
or MUS PERF 419	Advanced Trumpet	
<i>Tuba</i>		
MUS PERF 225	Elementary/Intermediate Tuba	2-4
or MUS PERF 425	Advanced Tuba	
<i>Viola</i>		
MUS PERF 233	Elementary/Intermediate Viola	2-4
or MUS PERF 433	Advanced Viola	
<i>Violin</i>		
MUS PERF 231	Elementary/Intermediate Violin	2-4
or MUS PERF 231	Elementary/Intermediate Violin	
<i>Voice</i>		
MUS PERF 205	Elementary/Intermediate Voice	2-4
or MUS PERF 405	Advanced Voice	

### MUSIC THEORY, MUSIC HISTORY, AND PIANO SKILLS

Code	Title	Credits
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUS PERF 102	Beginning Class Piano (Students who enroll in Mus Perf 201 or Mus Perf 203 are exempt from this course requirement.) <sup>1</sup>	2
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> A student may complete a proficiency exam in piano, instead of completing this course.

### MUSIC CORE COURSES

Code	Title	Credits
<b>6 credits from at least two categories:</b>		<b>6</b>
<i>Theory</i>		
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (must be taken concurrently)	3-4
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4 (must be taken concurrently)	
<i>History</i>		
		3

MUSIC/ FOLKLORE 402	Musical Cultures of the World
MUSIC 405	Seminar: Cultural Study of Music
MUSIC 411	Survey of Music in the Middle Ages
MUSIC 412	Survey of Music in the Renaissance
MUSIC 413	Survey of Music in the Baroque Era
MUSIC 414	Survey of Music in the Classic Era
MUSIC 415	Survey of Music in the Romantic Era
MUSIC 416	Survey of Music in the Twentieth Century
MUSIC 419	Music in the United States
MUSIC 511	Historical Performance Practices
MUSIC 513	Survey of Opera
<i>Additional Performance</i>	
	3
Complete courses beyond the minimum three semesters required. Consult performance course list above.	

**Total Credits** **15-16**

### MUSIC EMPHASIS - ELECTIVES TO MEET 42 CREDITS IN THE MAJOR<sup>2,3</sup>

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 43	University Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 59	University Chorus	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 107	Music & Film	3
MUSIC 201	Music and Society	2
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1

MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	MUS PERF 219	Elementary/Intermediate Trumpet	2-4
MUSIC 319	Topics in Music and Ethnicity in the United States	3	MUS PERF 221	Elementary/Intermediate Trombone	2-4
MUSIC 331	Jazz Improvisation	3	MUS PERF 223	Elementary/Intermediate Euphonium	2-4
MUSIC 332	Jazz Improvisation	3	MUS PERF 225	Elementary/Intermediate Tuba	2-4
MUSIC 340	Pedagogy	1-2	MUS PERF 227	Elementary/Intermediate Percussion	2-4
MUSIC 345	Practicum in String Pedagogy	2	MUS PERF 231	Elementary/Intermediate Violin	2-4
MUSIC 346	Repertoire	1-2	MUS PERF 233	Elementary/Intermediate Viola	2-4
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	MUS PERF 235	Elementary/Intermediate Cello	2-4
MUSIC 405	Seminar: Cultural Study of Music	3	MUS PERF 237	Elementary/Intermediate Double Bass	2-4
MUSIC 411	Survey of Music in the Middle Ages	3	MUS PERF 239	Elementary/Intermediate Harp	2-4
MUSIC 412	Survey of Music in the Renaissance	3	MUS PERF 240	Elementary/Intermediate Guitar	2-4
MUSIC 413	Survey of Music in the Baroque Era	3	MUS PERF 242	Accompanying	2
MUSIC 414	Survey of Music in the Classic Era	3	MUS PERF 247	Second Year Composition	3
MUSIC 415	Survey of Music in the Romantic Era	3	MUS PERF 248	Second Year Composition	3
MUSIC 416	Survey of Music in the Twentieth Century	3	MUS PERF 251	Keyboard Skills	2
MUSIC 419	Music in the United States	3	MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUSIC 461	Collegium Musicum	1	MUS PERF 327	Advanced Techniques: Percussion	1-2
MUSIC 466	Diction for Singers	2	MUS PERF 331	Advanced Techniques: Violin	1-2
MUSIC 467	Language Diction for Singing I	2	MUS PERF 333	Advanced Techniques: Viola	1-2
MUSIC 468	Language Diction for Singing II	2	MUS PERF 339	Advanced Techniques: Harp	1-2
MUSIC 497	Special Topics in Music	1-3	MUS PERF 342	Piano Accompanying Lab	1
MUSIC 499	Directed Study	1-3	MUS PERF 347	Third Year Composition	3
MUSIC 502	Figured Bass and Basso Continuo	3	MUS PERF 348	Third Year Composition	3
MUSIC 511	Historical Performance Practices	3	MUS PERF 401	Advanced Piano	2-4
MUSIC 513	Survey of Opera	3	MUS PERF 402	Advanced Harpsichord	2-4
MUSIC 523	Orchestration I	3	MUS PERF 403	Advanced Organ	2-4
MUS PERF 101	Beginning Class Piano	2	MUS PERF 405	Advanced Voice	2-4
MUS PERF 102	Beginning Class Piano	2	MUS PERF 407	Advanced Flute	2-4
MUS PERF 103	Elementary Class Piano	2	MUS PERF 409	Advanced Oboe	2-4
MUS PERF 104	Intermediate Class Piano	2	MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 108	Jazz Class Piano	2	MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 143	Introduction to Performance: Voice	1	MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 144	Vocal Instruction for Non-Voice Majors	1-2	MUS PERF 417	Advanced Horn	2-4
MUS PERF 148	First Year Composition	3	MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	2	MUS PERF 421	Advanced Trombone	2-4
MUS PERF 201	Elementary/Intermediate Piano	2-4	MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 202	Elementary/Intermediate Harpsichord	2-4	MUS PERF 425	Advanced Tuba	2-4
MUS PERF 203	Elementary/Intermediate Organ	2-4	MUS PERF 427	Advanced Percussion	2-4
MUS PERF 205	Elementary/Intermediate Voice	2-4	MUS PERF 431	Advanced Violin	2-4
MUS PERF 207	Elementary/Intermediate Flute	2-4	MUS PERF 433	Advanced Viola	2-4
MUS PERF 209	Elementary/Intermediate Oboe	2-4	MUS PERF 435	Advanced Cello	2-4
MUS PERF 211	Elementary/Intermediate Clarinet	2-4	MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 213	Elementary/Intermediate Saxophone	2-4	MUS PERF 439	Advanced Harp	2-4
MUS PERF 215	Elementary/Intermediate Bassoon	2-4	MUS PERF 440	Advanced Guitar	2-4
MUS PERF 217	Elementary/Intermediate Horn	2-4	MUS PERF 447	Fourth Year Composition	3
			MUS PERF 448	Fourth Year Composition	3
			MUS PERF 457	Jazz Composition and Arranging	3
			MUS PERF 458	Jazz Composition and Arranging	3

2

A maximum of 16 credits can be taken from courses numbered below 100.

## 3

Students who complete MUSIC 122, MUSIC 221, or MUSIC 222 without having taken the earlier courses in the theory sequence, or who achieve advanced placement in theory through department examination, may not be required to complete the prerequisite courses in the theory sequence. However, no retroactive course credit will be granted. All students must complete at least 42 credits in Mead Witter School of Music coursework.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all MUSIC, MUS PERF and other courses counting in the major
- 2.000 GPA on 15 upper-level major credits in the major, taken in Residence (see below)
- 15 credits in MUSIC or MUS PERF, taken on the UW-Madison campus

Music Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC/CURRIC 301	Music Learning and Teaching 1	2
MUSIC/CURRIC 303	Fieldwork in Music Communities	1
MUSIC/CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2

MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity	3
MUSIC/AFROAMER/DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC/CURRIC 337	Practicum in Teaching Music	1
MUSIC 340	Pedagogy	1-2
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 346	Repertoire	1-2
MUSIC/FOLKLORE 402	Musical Cultures of the World	3
MUSIC 405	Seminar: Cultural Study of Music	3
MUSIC/CURRIC 409	Student Teaching in General and Vocal Music	6-12
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	6-12
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC/CURRIC 420	Teaching Popular Instrumental Music 1	1
MUSIC/CURRIC 421	Teaching Popular Instrumental Music 2	1
MUSIC 461	Collegium Musicum	1
MUSIC 463	Acting for Singers	1
MUSIC 465	Marching Band Techniques	1
MUSIC 466	Diction for Singers	2
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC 511	Historical Performance Practices	3
MUSIC 513	Survey of Opera	3
MUSIC/FOLKLORE 515	Proseminar in Ethnomusicology	3
MUSIC 523	Orchestration I	3
MUSIC 540	Advanced Pedagogy	2
MUSIC 541	Seminar in Choral Literature	2
MUSIC 546	String Literature	2
MUSIC 548	Piano Pedagogy II	3
MUSIC 591	Organ Literature and Design	2

MUSIC 621	Renaissance Polyphony	3
MUSIC 622	Baroque Counterpoint	3
MUSIC 623	Form and Analysis	2-3
MUSIC 624	Form and Analysis II	2-3
MUSIC 629	Jazz Theory and Analysis	3
MUSIC 681	Senior Honors Thesis	3
MUSIC 682	Senior Honors Thesis	3

## Music Performance

Code	Title	Credits
MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUS PERF 327	Advanced Techniques: Percussion	1-2
MUS PERF 331	Advanced Techniques: Violin	1-2
MUS PERF 333	Advanced Techniques: Viola	1-2
MUS PERF 339	Advanced Techniques: Harp	1-2
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4
MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4
MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 441	Advanced Jazz Studio Instruction	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2

## HONORS IN THE MAJOR

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.

- Present a minimum cumulative GPA of 3.300 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.500 GPA in all music coursework
- Engage a faculty member and plan 12 credits of honors curriculum coursework; submit this plan to the undergraduate music advisor.
- Prior to beginning work on the Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

To complete and earn Honors in any Music major, students must satisfy the requirements for the major and these additional requirements:

- Earn a minimum 3.300 University GPA
- Earn a minimum 3.500 GPA in the major
- MUSIC 681–MUSIC 682 for a total of 6 credits
- 12 credits of Honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate technical proficiency in the major performance medium.
2. Demonstrate the ability to learn independently and collaboratively.
3. Integrate knowledge across domains of music research and applied studies.
4. Demonstrate artistry, creativity, and discipline in preparation and performance.

5. Employ an advanced vocabulary to discuss music verbally and in writing.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Student must work with a School of Music faculty member to create a cohesive plan to meet requirements; the plan must be approved by the appropriate faculty area committee(s) and by the Curriculum Committee.

#### First Year

Fall	Credits	Spring	Credits
Communication A	3	Ethnic Studies	3
MUSIC 121 & MUSIC 171	4	Quantitative Reasoning A	3
MUSIC 200-level (Performance Study)	2	MUSIC 122 & MUSIC 172	4
Music emphasis course	1	MUS PERF 200-level (Performance Study)	2
Foreign Language (if required)	4	Music emphasis course	1
		INTER-LS 210	1
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Communication Part B	3
Biological Science Breadth	3	Physical Science Breadth	3
MUSIC 211	3	MUSIC 212	3
MUS PERF 2XX (Performance Study)	2	Social Science Breadth	6
Music emphasis course	1	Submit music emphasis study plan for approval by departmental Curriculum Committee	
Social Science Breadth	3		
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the major		Music core course	3
Music emphasis course	3	Music emphasis course	3
Music Core course	3	Literature Breadth	6
Literature Breadth	3	Natural Science Breadth	4
Natural Science Breadth	7		
	<b>16</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Music emphasis course	6	Music emphasis course	1
Social Science Breadth	3	Electives	14
Electives	6		
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING

#### Advisor: Todd Reck

Office: 3561G Humanities Building  
 Email: ugradadvisor@music.wisc.edu  
 Office phone: (608) 263-1918

**If you wish to schedule an advising appointment, please note the following:**

- Online access to schedule advising appointments is restricted to students who applied to, auditioned for, and have been admitted to the Mead Witter School of Music.
- Students considering applying to the School of Music should contact our undergraduate admissions coordinator, Jared Jellison, at admissions@music.wisc.edu or (608) 263-5986.

#### INDIVIDUAL ACADEMIC ADVISING

Current music majors can schedule an appointment with Todd via Starfish, which can be accessed via your MyUW student portal. If uncertain how to use Starfish, please see <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>

Appointments can also be made by phone at 608-263-1918.

#### BE PREPARED FOR YOUR ADVISING APPOINTMENT

Please bring the following to your appointment:

- Any questions you have about requirements, extracurricular opportunities, study abroad, or whatever is on your mind.
- A pen and paper for note taking.
- Any form you may need signed. Be sure you have filled out all pertinent information and have read the form/document thoroughly.

#### WHAT TO EXPECT FROM AN ACADEMIC ADVISING APPOINTMENT

Academic advisors help students learn and understand their degree and major requirements. Programs in the Mead Witter School of Music are highly sequential, and some required courses are offered only once each year. Many of our undergraduates are interested in earning an additional major and/or certificate; with careful planning each semester, this is possible. Advisors often can explain some of the differences between courses that meet the same degree requirement. For students considering study abroad, it's a good idea to begin exploring programs early in your degree and work with your advisor to determine the program length (semester/summer/year) that will best fit your needs and interests.

It is recommended that you see an advisor at least once a semester to plan your courses and check progress toward degree completion. Students



sometimes need clarification of degree requirements, particularly if they are considering switching to a different major/degree program within the School of Music.

## GENERAL CONTACT INFORMATION:

Mead Witter School of Music  
3561 Mosse Humanities Building  
455 North Park Street  
Madison, WI 53706-1483  
(608) 263-1900  
music@music.wisc.edu

## SCHOOL OF EDUCATION CAREER CENTER

Need assistance with preparing for your next step after college?  
Want to explore career options linked to Music Education major?  
Want help beginning your job search and don't know where to start?  
Need assistance with your résumé, cover letter, or interviewing skills?  
Want to connect with potential employers?

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

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## PEOPLE

**Faculty:** *Professors* Cook (director), Calderón, Chisholm, Di Sanza, Dominguez, Fischer, Fulmer, Hetzler, Johnson, Karp, Perry, Rowe, Schwendinger, Taylor, Teeple, Thimmig, Vallon, Wallmann; *Associate Professors* Butler, Farah, Grabois, Nelson, Ronis; *Assistant Professors* Chana, Cornish, Flowers, Laurenz, Lee, Lewis, Rathgeber, Sans, Walsh, Weinstein-Reimann; *Marching Band Director* Pompey; *Teaching Faculty* Brailey, Curry, Gladstone, Gonzalez, Koester, Pompey, Purdue, Rottmayer, Weinholts, Wahn; *Faculty Associate* Rich; *Lecturers* Lee, McCullough, Mok, Patenaude, Tran, Waldo; *Teaching Specialists* Hammes, Ross

The faculty of the Mead Witter School of Music is a distinguished group of educators, performing musicians, and active scholars. The backgrounds of performance faculty include rich experiences as professional musicians, researchers, recording artists, and entrepreneurs. Faculty in music education have particular insight into their field as a result of their backgrounds as school educators, performers, and scholars. In areas such as music theory and musicology, the musical community has high regard for the past and current contributions to the study of musical theory, historical perspectives on music, the role of music in societies around the world, and the unique contributions of American musicians. Teaching is a priority for the faculty, who are readily accessible to students for advice and support. Faculty, staff, and students cooperate in extraordinary ways with joint ventures that reach across disciplines both in research or instruction.

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall #9701, Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

### SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision. Accompanying each award notification will be a Letter of Commitment, to be signed and returned to the School of Music. Criteria used for awarding scholarships are:

1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most Mead Witter School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.000 grade point average. Please see the Mead Witter School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Music (<https://nasm.arts-accredit.org>)

Accreditation status: Accredited. Next accreditation review: 2022-2023

## MUSIC: PERFORMANCE

### REQUIREMENTS

### REQUIREMENTS FOR THE PERFORMANCE OPTION <sup>4</sup>

42 credits required, as follows:

## PERFORMANCE STUDY

Code	Title	Credits
<b>7 semesters in one instrument group below, with at least 3 semesters in the course numbered 400-499: <sup>1</sup></b>		<b>14-28</b>

#### Bass

MUS PERF 237 Elementary/Intermediate Double Bass  
or MUS PERF 437 Advanced Double Bass

#### Bassoon

MUS PERF 215 Elementary/Intermediate Bassoon (Requires concurrent enrollment in MUSIC 61, 62, 40, or 41)  
or MUS PERF 415 Advanced Bassoon

#### Cello

MUS PERF 235 Elementary/Intermediate Cello (Requires concurrent enrollment in MUSIC 61 or 62)  
or MUS PERF 435 Advanced Cello

#### Clarinet

MUS PERF 211 Elementary/Intermediate Clarinet (Requires concurrent enrollment in MUSIC 61, 62, 40, or 41)  
or MUS PERF 411 Advanced Clarinet

#### Euphonium

MUS PERF 223 Elementary/Intermediate Euphonium (Requires concurrent enrollment in MUSIC 61, 62, 40, or 41)  
or MUS PERF 423 Advanced Euphonium

#### Flute

MUS PERF 207 Elementary/Intermediate Flute (Requires concurrent enrollment in MUSIC 61, 62, 40, or Music 41)  
or MUS PERF 407 Advanced Flute

#### Guitar

MUS PERF 240 Elementary/Intermediate Guitar  
or MUS PERF 440 Advanced Guitar

#### Harp

MUS PERF 239 Elementary/Intermediate Harp (Requires concurrent enrollment in MUSIC 61, or 62)  
or MUS PERF 439 Advanced Harp

#### Horn

MUS PERF 217 Elementary/Intermediate Horn  
or MUS PERF 417 Advanced Horn

#### Percussion

MUS PERF 227 Elementary/Intermediate Percussion  
or MUS PERF 427 Advanced Percussion

#### Piano

MUS PERF 201 Elementary/Intermediate Piano  
or MUS PERF 401 Advanced Piano

#### Oboe

MUS PERF 209 Elementary/Intermediate Oboe  
or MUS PERF 409 Advanced Oboe

<b>Organ</b>	
MUS PERF 203	Elementary/Intermediate Organ or MUS PERF 403 Advanced Organ
<b>Saxophone</b>	
MUS PERF 213	Elementary/Intermediate Saxophone or MUS PERF 413 Advanced Saxophone
<b>Trombone</b>	
MUS PERF 221	Elementary/Intermediate Trombone or MUS PERF 421 Advanced Trombone
<b>Trumpet</b>	
MUS PERF 219	Elementary/Intermediate Trumpet or MUS PERF 419 Advanced Trumpet
<b>Tuba</b>	
MUS PERF 225	Elementary/Intermediate Tuba or MUS PERF 425 Advanced Tuba
<b>Viola</b>	
MUS PERF 233	Elementary/Intermediate Viola or MUS PERF 433 Advanced Viola
<b>Violin</b>	
MUS PERF 231	Elementary/Intermediate Violin or MUS PERF 431 Advanced Violin
<b>Voice</b>	
MUS PERF 205	Elementary/Intermediate Voice or MUS PERF 405 Advanced Voice
<b>Total Credits</b>	<b>14-28</b>

1

Concurrent enrollment in the appropriate performing organization, ensemble, or accompanying is required each semester of enrollment in performance study,

## MUSIC THEORY, HISTORY, AND PIANO SKILLS

Code	Title	Credits
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	4
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUS PERF 102	Beginning Class Piano <sup>2</sup>	2
<i>Additional Music History. Complete one of the following:</i>		3
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	

MUSIC 511	Historical Performance Practices
MUSIC 513	Survey of Opera
<b>Total Credits</b>	<b>23</b>

2

A student may complete a proficiency exam in piano, instead of completing this course.

## MUSICAL ORGANIZATIONS AND ACCOMPANYING

Code	Title	Credits
<b>Complete at least 7 semesters in the following:</b>		
MUSIC 40	Wind Ensemble	7
MUSIC 41	Concert Band	
MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
MUSIC 256	University Opera	
MUSIC 257	Opera Workshop	
MUSIC 270	Ensemble-Guitar	
MUS PERF 251	Keyboard Skills (keyboard majors only)	
MUS PERF 242	Accompanying (keyboard majors only)	
MUS PERF 342	Piano Accompanying Lab (keyboard majors only)	

## ELECTIVES TO MEET 42 CREDITS IN THE MAJOR <sup>3</sup>

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 43	University Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 59	University Chorus	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 107	Music & Film	3
MUSIC 201	Music and Society	2
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2

MUSIC 253	Conducting	2	MUS PERF 203	Elementary/Intermediate Organ	2-4
MUSIC 254	Conducting	2	MUS PERF 205	Elementary/Intermediate Voice	2-4
MUSIC 256	University Opera	1-2	MUS PERF 207	Elementary/Intermediate Flute	2-4
MUSIC 257	Opera Workshop	2	MUS PERF 209	Elementary/Intermediate Oboe	2-4
MUSIC 262	Jazz Ensemble	1	MUS PERF 211	Elementary/Intermediate Clarinet	2-4
MUSIC 265	Ensemble-Woodwind	1	MUS PERF 213	Elementary/Intermediate Saxophone	2-4
MUSIC 267	Ensemble-Brass	1	MUS PERF 215	Elementary/Intermediate Bassoon	2-4
MUSIC 268	Ensemble-Percussion	1	MUS PERF 217	Elementary/Intermediate Horn	2-4
MUSIC 269	Ensemble-String	1	MUS PERF 219	Elementary/Intermediate Trumpet	2-4
MUSIC 270	Ensemble-Guitar	1	MUS PERF 221	Elementary/Intermediate Trombone	2-4
MUSIC 272	Musica Practica: Aural Skills 4	1	MUS PERF 223	Elementary/Intermediate Euphonium	2-4
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	MUS PERF 225	Elementary/Intermediate Tuba	2-4
MUSIC 319	Topics in Music and Ethnicity in the United States	3	MUS PERF 227	Elementary/Intermediate Percussion	2-4
MUSIC 331	Jazz Improvisation	3	MUS PERF 231	Elementary/Intermediate Violin	2-4
MUSIC 332	Jazz Improvisation	3	MUS PERF 233	Elementary/Intermediate Viola	2-4
MUSIC 340	Pedagogy	1-2	MUS PERF 235	Elementary/Intermediate Cello	2-4
MUSIC 345	Practicum in String Pedagogy	2	MUS PERF 237	Elementary/Intermediate Double Bass	2-4
MUSIC 346	Repertoire	1-2	MUS PERF 239	Elementary/Intermediate Harp	2-4
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	MUS PERF 240	Elementary/Intermediate Guitar	2-4
MUSIC 405	Seminar: Cultural Study of Music	3	MUS PERF 242	Accompanying	2
MUSIC 411	Survey of Music in the Middle Ages	3	MUS PERF 247	Second Year Composition	3
MUSIC 412	Survey of Music in the Renaissance	3	MUS PERF 248	Second Year Composition	3
MUSIC 413	Survey of Music in the Baroque Era	3	MUS PERF 251	Keyboard Skills	2
MUSIC 414	Survey of Music in the Classic Era	3	MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUSIC 415	Survey of Music in the Romantic Era	3	MUS PERF 327	Advanced Techniques: Percussion	1-2
MUSIC 416	Survey of Music in the Twentieth Century	3	MUS PERF 331	Advanced Techniques: Violin	1-2
MUSIC 419	Music in the United States	3	MUS PERF 333	Advanced Techniques: Viola	1-2
MUSIC 461	Collegium Musicum	1	MUS PERF 339	Advanced Techniques: Harp	1-2
MUSIC 466	Diction for Singers	2	MUS PERF 342	Piano Accompanying Lab	1
MUSIC 468	Language Diction for Singing II	2	MUS PERF 347	Third Year Composition	3
MUSIC 467	Language Diction for Singing I	2	MUS PERF 348	Third Year Composition	3
MUSIC 497	Special Topics in Music	1-3	MUS PERF 401	Advanced Piano	2-4
MUSIC 502	Figured Bass and Basso Continuo	3	MUS PERF 402	Advanced Harpsichord	2-4
MUSIC 511	Historical Performance Practices	3	MUS PERF 403	Advanced Organ	2-4
MUSIC 513	Survey of Opera	3	MUS PERF 405	Advanced Voice	2-4
MUSIC 523	Orchestration I	3	MUS PERF 407	Advanced Flute	2-4
MUS PERF 101	Beginning Class Piano	2	MUS PERF 409	Advanced Oboe	2-4
MUS PERF 102	Beginning Class Piano	2	MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 103	Elementary Class Piano	2	MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 104	Intermediate Class Piano	2	MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 108	Jazz Class Piano	2	MUS PERF 417	Advanced Horn	2-4
MUS PERF 143	Introduction to Performance: Voice	1	MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 148	First Year Composition	3	MUS PERF 421	Advanced Trombone	2-4
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	2	MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 201	Elementary/Intermediate Piano	2-4	MUS PERF 425	Advanced Tuba	2-4
MUS PERF 202	Elementary/Intermediate Harpsichord	2-4	MUS PERF 427	Advanced Percussion	2-4
			MUS PERF 431	Advanced Violin	2-4
			MUS PERF 433	Advanced Viola	2-4
			MUS PERF 435	Advanced Cello	2-4
			MUS PERF 437	Advanced Double Bass	2-4

MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3

**3**

A maximum of 16 credits can be taken from courses numbered below 100.

**4**

The same requirements for Residence & Quality of Work apply to the Performance Option. The same Honors in the Major requirements apply, as well.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
Communication A		3 Quantitative Reasoning-A	3
MUSIC 121 & MUSIC 171	4	MUSIC 122 & MUSIC 172	4
Performance Study: MUS PERF 200-level	2	Performance Study: MUS PERF 200-level	2
Performing Organization/ Accompanying	1-2	Performing Organization/ Accompanying	1-2
Foreign Language (if required)	4	MUS PERF 101 (or as placed)	2
		Literature Breadth	3
	<b>15</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 Ethnic Studies	4
MUSIC 221 & MUSIC 271 (Music Theory)	4	Communication B	4
MUSIC 211 (Music History)	3	MUSIC 212 (Music History)	3
Performance Study: MUS PERF 200-level	2	Performance Study: MUS PERF 200-level	2
Performing Organization/ Accompanying	1	Performing Organization/ Accompanying	1

MUS PERF 102	2 INTER-LS 210	1
	<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Performance Study: MUS PERF 400-level		2 Performance Study: MUS PERF 400-level	2
Performing Organization/ Accompanying	1	Performing Organization/ Accompanying	1
Physical Science Breadth	3	Upper-level Music History	3
Social Science Breadth	4	Biological Science Breadth	3
Literature Breadth	3	Social Science Breadth	4
Elective	1	Electives	2
	<b>14</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Performance Study: MUS PERF 400-level		2 Natural Science Breadth	3
Performing Organization/ Accompanying	1	Electives	12
Natural Science Breadth	6		
Social Science Breadth	4		
Electives	2		
	<b>15</b>		<b>15</b>

**Total Credits 120**

## MUSIC, B.S.

**VALUES AND EDUCATIONAL PRIORITIES**

At the Mead Witter School of Music

- we teach by example offering participatory, mentor-driven education;
- we provide individualized instruction and flexible curricula that encourage students to find their own musical pathways;
- we foster musical excellence and high academic standards;
- our faculty exhibit the best of their respective fields, are deeply engaged in artistic scholarship and research, and are committed to teaching at all levels;
- we whole-heartedly embrace the Wisconsin Idea;
- our department is a dynamic educational community, part of a large and vibrant research university within a city that values and supports the arts.

The Mead Witter School of Music enriches students' educational experience by hosting guest artists and scholars for master classes, recitals, colloquia, seminars, and festivals. Its performing organizations and ensembles perform more than 350 recitals and concerts every year, making a significant contribution to the cultural life of the university and the wider Madison community. Facilities specifically designed for music study and performance offer excellent resources for students to pursue their interests.

In addition to a thriving undergraduate student body, music students have the advantage of working side-by-side with master's-level and doctoral-level music students. Working collegially in class and studio, making music together on stage and off, and building professional relationships across program boundaries all enable the sharing of expertise, experience, and perspectives and add immeasurably to every student's development.

The music degree programs are demanding and require care in taking courses in the proper sequence. Graduation could be delayed if a course is not taken in the appropriate semester. Refer to the Requirements tab for details on the coursework and sequences of study in specific majors.

Mead Witter School of Music views its goals and objectives as complementary to those of the University of Wisconsin–Madison, which include "to provide an environment in which faculty and students can discover, examine critically, preserve and transmit the knowledge, wisdom and values that will help ensure the survival of the present and future generations with improvement in the quality of life."

The University of Wisconsin–Madison School of Music is accredited by the National Association of Schools of Music (NASM), and has been an institutional member of NASM since 1966.

## PEOPLE AND FACILITIES

The greatest asset of Mead Witter School of Music is its people—staff, faculty, and students—who are daily immersed in learning, building, researching, writing, and making music. Mentoring is the core of our teaching, manifest in one-on-one applied instruction as well as in small-group coaching and classes. Undergraduate students will build professional relationships with many faculty, form friendships with peers across the boundaries of degree programs, and collaborate with staff in addressing the practical matters of academic study. Extensive information on faculty, including biographies, is available here (<https://www.music.wisc.edu/faculty/>).

The Mosse Humanities Building, built in 1969, houses most of the music classrooms, rehearsal rooms, faculty studios, and 111 practice rooms. Most recitals and concerts take place in one of three performance spaces: Mills Concert Hall, Morphy Recital Hall, and Eastman Organ Recital Hall. The school's extensive collection of instruments, both common and unusual, is available to both faculty and students. Music Hall with its clock tower, built in 1879, is a campus landmark. Renovated in 1985, it is the home of the opera program. The new Hamel Music Center includes a concert hall, a recital hall, and a large ensemble rehearsal space.

Memorial Library is the home of the Mills Music Library, which offers extensive research and circulating collections, attractive study space, and personal staff assistance with research. Music materials on campus number over half a million, ranging from scores and sheet music to archival collections and historic audio recordings. Through Mills Music Library and other UW–Madison libraries, students have access to a wide range of online research databases as well as millions of articles, books, and streaming media. All genres of music are represented, with notably strong collections in Americana and ethnic music. Nationally known special collections include the Tams–Witmark Collection, a treasury of early American musical theater materials, and the Wisconsin Music Archives.

## CHOOSING A MUSIC MAJOR

Mead Witter School of Music offers several degree programs at the undergraduate level. The bachelor of arts and bachelor of science curricula are liberal arts majors in the College of Letters & Science and are excellent programs for students interested in exploring the wide array of course

offerings in the college or in two or more major areas of study. In these programs music courses comprise one-third of a student's work toward the degree. By comparison, the bachelor of music curriculum, a professional degree in music, requires 75 percent of total coursework within the Mead Witter School of Music. Students in this program are looking for depth in performance study along with a large complement of other musical studies at advanced level. A number of alumni from both B.A. and B.S. have completed two majors at UW–Madison. Both of these programs may provide a foundation for graduate study and sometimes for a career in music. We encourage conversations with Mead Witter School of Music professors at any point during your first two years as a music major to learn as much as possible about options that are available to you.

## GRADES AND ADVISING

Mead Witter School of Music is a department of the UW–Madison College of Letters & Science. Information on the grading system and academic procedures/policies is available in the College of Letters & Science section of this *Guide* under the policies and regulations (<http://guide.wisc.edu/undergraduate/letters-science/#policiesandregulationstext>) tab.

The undergraduate advisor of the Mead Witter School of Music serves as the advisor for every music major. The advisor maintains records and assists students in determining an appropriate course schedule each semester.

## HOW TO GET IN

### ADMISSION PROCEDURES

To be admitted to the Mead Witter School of Music a student needs to apply to and be admitted by both UW–Madison and the Mead Witter School of Music:

- Prospective (new or transfer) and re-entry students should apply to UW–Madison through the Office of Admissions and Recruitment (<https://admissions.wisc.edu/>).
- All students must also complete an application and pass an audition. See the Mead Witter School of Music website (<https://music.wisc.edu/undergraduate-admissions/>) for more information. Questions about the Music application and audition process should be directed to the Music Undergraduate Audition and Admissions Coordinator ([admissions@music.wisc.edu](mailto:admissions@music.wisc.edu)).

### DECLARING A MUSIC MAJOR

Students admitted to UW–Madison and the Mead Witter School of Music will be declared in their music major or music degree program.

All students must make satisfactory progress, as described below, to continue in their major or degree program. Students not meeting these requirements should meet with the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) to discuss their options for continuing in the Mead Witter School of Music.

### MUSIC MAJOR CONTINUATION REQUIREMENTS

Students must meet all of the requirements below to continue in the program. Students not meeting any one of these requirements will be removed from the program and must choose a new major. Contact the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) for consideration of extenuating circumstances or if the student is considering

a leave of absence (such as family emergency, personal wellness, study abroad, or approved accommodations)

### (1) ENROLLMENT REQUIREMENTS

- Enroll every fall and spring semester in a course that meets the Performance Study Requirements, until that requirement is completed.
- Enroll in MUSIC 121 and MUSIC 171 to begin the music theory/history sequence in the first possible fall semester after declaration.

### (2) PERFORMANCE STUDY JURY AND PROGRESS REPORT

At least once a year, students must pass a performance jury with their major instrument. The purpose of this jury will be to evaluate performance study progress and to set goals for the coming year. Students who do not pass will receive guidance about making improvements and a warning letter and will have a semester to work with their professor to make improvements needed to remain in the program.

### (3) PROGRESSION TO 400-LEVEL PERFORMANCE STUDY

At the end of the fourth semester of enrollment in Performance Study, students will be evaluated for permission to advance to 400-level performance study. Students who do not meet progression requirements to advance to 400-level performance study may be given an additional semester to meet those requirements.

### (4) MEET GPA REQUIREMENTS IN THREE AREAS:

- 2.000 overall cumulative GPA
- 2.000 cumulative GPA in all MUSIC and MUSIC PERFORMANCE courses
- 2.000 cumulative GPA in music theory (MUSIC 121, MUSIC 171, MUSIC 122, MUSIC 172, MUSIC 221, MUSIC 221 and MUSIC 271) and music history (MUSIC 211 and MUSIC 212)

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

Foreign Language Complete the third unit of a foreign language.

L&S Breadth Complete:
 

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced Coursework Complete at least 60 credits at the Intermediate/Advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience Complete both:
 

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

Quality of Work
 

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

### Requirements for the Major

Students who do not declare a Named Option must complete the requirements below.

View as list View as grid

#### • MUSIC: PERFORMANCE (P. 1210)

Student must work with a School of Music faculty member to create a cohesive plan to meet requirements; the plan must be approved by the appropriate faculty area committee(s) and by the Curriculum Committee.

### PERFORMANCE STUDY - THREE SEMESTERS IN ONE OF THE FOLLOWING AREAS:

Code	Title	Credits
<i>Bass</i>		
MUS PERF 237	Elementary/Intermediate Double Bass	2-4
or MUS PERF 437	Advanced Double Bass	
<i>Bassoon</i>		
MUS PERF 215	Elementary/Intermediate Bassoon	2-4
or MUS PERF 415	Advanced Bassoon	
<i>Cello</i>		
MUS PERF 235	Elementary/Intermediate Cello	2-4
or MUS PERF 435	Advanced Cello	
<i>Clarinet</i>		
MUS PERF 211	Elementary/Intermediate Clarinet	2-4
or MUS PERF 411	Advanced Clarinet	
<i>Euphonium</i>		
MUS PERF 223	Elementary/Intermediate Euphonium	2-4
or MUS PERF 423	Advanced Euphonium	
<i>Flute</i>		
MUS PERF 207	Elementary/Intermediate Flute	2-4
or MUS PERF 407	Advanced Flute	
<i>Guitar</i>		
MUS PERF 240	Elementary/Intermediate Guitar	2-4
or MUS PERF 440	Advanced Guitar	
<i>Harp</i>		
MUS PERF 239	Elementary/Intermediate Harp	2-4
or MUS PERF 439	Advanced Harp	
<i>Harpsichord</i>		
MUS PERF 202	Elementary/Intermediate Harpsichord	2-4
or MUS PERF 402	Advanced Harpsichord	
<i>Horn</i>		
MUS PERF 217	Elementary/Intermediate Horn	2-4
or MUS PERF 417	Advanced Horn	
<i>Percussion</i>		
MUS PERF 227	Elementary/Intermediate Percussion	2-4
or MUS PERF 427	Advanced Percussion	
<i>Piano</i>		
MUS PERF 201	Elementary/Intermediate Piano	2-4

or MUS PERF 401	Advanced Piano	
<i>Oboe</i>		
MUS PERF 209	Elementary/Intermediate Oboe	2-4
or MUS PERF 409	Advanced Oboe	
<i>Organ</i>		
MUS PERF 203	Elementary/Intermediate Organ	2-4
or MUS PERF 403	Advanced Organ	
<i>Saxophone</i>		
MUS PERF 213	Elementary/Intermediate Saxophone	2-4
or MUS PERF 413	Advanced Saxophone	
<i>Trombone</i>		
MUS PERF 221	Elementary/Intermediate Trombone	2-4
or MUS PERF 421	Advanced Trombone	
<i>Trumpet</i>		
MUS PERF 219	Elementary/Intermediate Trumpet	2-4
or MUS PERF 419	Advanced Trumpet	
<i>Tuba</i>		
MUS PERF 225	Elementary/Intermediate Tuba	2-4
or MUS PERF 425	Advanced Tuba	
<i>Viola</i>		
MUS PERF 233	Elementary/Intermediate Viola	2-4
or MUS PERF 433	Advanced Viola	
<i>Violin</i>		
MUS PERF 231	Elementary/Intermediate Violin	2-4
or MUS PERF 231	Elementary/Intermediate Violin	
<i>Voice</i>		
MUS PERF 205	Elementary/Intermediate Voice	2-4
or MUS PERF 405	Advanced Voice	

### MUSIC THEORY, MUSIC HISTORY, AND PIANO SKILLS

Code	Title	Credits
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	4
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	4
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUS PERF 102	Beginning Class Piano (Students who enroll in Mus Perf 201 or Mus Perf 203 are exempt from this course requirement.) <sup>1</sup>	2

**Total Credits** **16**

<sup>1</sup>

A student may complete a proficiency exam in piano, instead of completing this course.

### MUSIC CORE COURSES

Code	Title	Credits
<b>6 credits from at least two categories:</b>		<b>6</b>
<i>Theory</i>		3-4



MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3 (must be taken concurrently)	
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4 (must be taken concurrently)	
<i>History</i>		3
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC 405	Seminar: Cultural Study of Music	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<i>Additional Performance</i>		3
Complete courses beyond the minimum three semesters required. Consult performance course list above.		

**Total Credits** **15-16**

## MUSIC EMPHASIS - ELECTIVES TO MEET 42 CREDITS IN THE MAJOR <sup>2,3</sup>

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 43	University Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 59	University Chorus	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 107	Music & Film	3
MUSIC 201	Music and Society	2
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1

MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 346	Repertoire	1-2
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC 405	Seminar: Cultural Study of Music	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 466	Diction for Singers	2
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC 511	Historical Performance Practices	3
MUSIC 513	Survey of Opera	3
MUSIC 523	Orchestration I	3
MUS PERF 101	Beginning Class Piano	2
MUS PERF 102	Beginning Class Piano	2
MUS PERF 103	Elementary Class Piano	2
MUS PERF 104	Intermediate Class Piano	2
MUS PERF 108	Jazz Class Piano	2
MUS PERF 143	Introduction to Performance: Voice	1
MUS PERF 144	Vocal Instruction for Non-Voice Majors	1-2
MUS PERF 148	First Year Composition	3
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	2
MUS PERF 201	Elementary/Intermediate Piano	2-4
MUS PERF 202	Elementary/Intermediate Harpsichord	2-4
MUS PERF 203	Elementary/Intermediate Organ	2-4

MUS PERF 205	Elementary/Intermediate Voice	2-4
MUS PERF 207	Elementary/Intermediate Flute	2-4
MUS PERF 209	Elementary/Intermediate Oboe	2-4
MUS PERF 211	Elementary/Intermediate Clarinet	2-4
MUS PERF 213	Elementary/Intermediate Saxophone	2-4
MUS PERF 215	Elementary/Intermediate Bassoon	2-4
MUS PERF 217	Elementary/Intermediate Horn	2-4
MUS PERF 219	Elementary/Intermediate Trumpet	2-4
MUS PERF 221	Elementary/Intermediate Trombone	2-4
MUS PERF 223	Elementary/Intermediate Euphonium	2-4
MUS PERF 225	Elementary/Intermediate Tuba	2-4
MUS PERF 227	Elementary/Intermediate Percussion	2-4
MUS PERF 231	Elementary/Intermediate Violin	2-4
MUS PERF 233	Elementary/Intermediate Viola	2-4
MUS PERF 235	Elementary/Intermediate Cello	2-4
MUS PERF 237	Elementary/Intermediate Double Bass	2-4
MUS PERF 239	Elementary/Intermediate Harp	2-4
MUS PERF 240	Elementary/Intermediate Guitar	2-4
MUS PERF 242	Accompanying	2
MUS PERF 247	Second Year Composition	3
MUS PERF 248	Second Year Composition	3
MUS PERF 251	Keyboard Skills	2
MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUS PERF 327	Advanced Techniques: Percussion	1-2
MUS PERF 331	Advanced Techniques: Violin	1-2
MUS PERF 333	Advanced Techniques: Viola	1-2
MUS PERF 339	Advanced Techniques: Harp	1-2
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4
MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4
MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 439	Advanced Harp	2-4

MUS PERF 440	Advanced Guitar	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3

**2**

A maximum of 16 credits can be taken from courses numbered below 100.

**3**

Students who complete MUSIC 122, MUSIC 221, or MUSIC 222 without having taken the earlier courses in the theory sequence, or who achieve advanced placement in theory through department examination, may not be required to complete the prerequisite courses in the theory sequence. However, no retroactive course credit will be granted. All students must complete at least 42 credits in Mead Witter School of Music coursework.

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all MUSIC, MUS PERF and other courses counting in the major
- 2.000 GPA on 15 upper-level major credits in the major, taken in Residence (see below)
- 15 credits in MUSIC or MUS PERF, taken on the UW-Madison campus

### Music

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1

MUSIC 270	Ensemble-Guitar	1	MUSIC/ FOLKLORE 515	Proseminar in Ethnomusicology	3
MUSIC 271	Musica Practica: Aural Skills 3	1	MUSIC 523	Orchestration I	3
MUSIC 272	Musica Practica: Aural Skills 4	1	MUSIC 540	Advanced Pedagogy	2
MUSIC/CURRIC 301	Music Learning and Teaching 1	2	MUSIC 541	Seminar in Choral Literature	2
MUSIC/CURRIC 303	Fieldwork in Music Communities	1	MUSIC 546	String Literature	2
MUSIC/CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2	MUSIC 548	Piano Pedagogy II	3
MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity	3	MUSIC 591	Organ Literature and Design	2
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	MUSIC 621	Renaissance Polyphony	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3	MUSIC 622	Baroque Counterpoint	3
MUSIC 331	Jazz Improvisation	3	MUSIC 623	Form and Analysis	2-3
MUSIC 332	Jazz Improvisation	3	MUSIC 624	Form and Analysis II	2-3
MUSIC/CURRIC 337	Practicum in Teaching Music	1	MUSIC 629	Jazz Theory and Analysis	3
MUSIC 340	Pedagogy	1-2	MUSIC 681	Senior Honors Thesis	3
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1	MUSIC 682	Senior Honors Thesis	3
MUSIC 345	Practicum in String Pedagogy	2	<b>Music Performance</b>		
MUSIC 346	Repertoire	1-2	<b>Code</b>	<b>Title</b>	<b>Credits</b>
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUSIC 405	Seminar: Cultural Study of Music	3	MUS PERF 327	Advanced Techniques: Percussion	1-2
MUSIC/ CURRIC 409	Student Teaching in General and Vocal Music	6-12	MUS PERF 331	Advanced Techniques: Violin	1-2
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	6-12	MUS PERF 333	Advanced Techniques: Viola	1-2
MUSIC 411	Survey of Music in the Middle Ages	3	MUS PERF 339	Advanced Techniques: Harp	1-2
MUSIC 412	Survey of Music in the Renaissance	3	MUS PERF 342	Piano Accompanying Lab	1
MUSIC 413	Survey of Music in the Baroque Era	3	MUS PERF 347	Third Year Composition	3
MUSIC 414	Survey of Music in the Classic Era	3	MUS PERF 348	Third Year Composition	3
MUSIC 415	Survey of Music in the Romantic Era	3	MUS PERF 401	Advanced Piano	2-4
MUSIC 416	Survey of Music in the Twentieth Century	3	MUS PERF 402	Advanced Harpsichord	2-4
MUSIC 419	Music in the United States	3	MUS PERF 403	Advanced Organ	2-4
MUSIC/CURRIC 420	Teaching Popular Instrumental Music 1	1	MUS PERF 405	Advanced Voice	2-4
MUSIC/CURRIC 421	Teaching Popular Instrumental Music 2	1	MUS PERF 407	Advanced Flute	2-4
MUSIC 461	Collegium Musicum	1	MUS PERF 409	Advanced Oboe	2-4
MUSIC 463	Acting for Singers	1	MUS PERF 411	Advanced Clarinet	2-4
MUSIC 465	Marching Band Techniques	1	MUS PERF 413	Advanced Saxophone	2-4
MUSIC 466	Diction for Singers	2	MUS PERF 415	Advanced Bassoon	2-4
MUSIC 467	Language Diction for Singing I	2	MUS PERF 417	Advanced Horn	2-4
MUSIC 468	Language Diction for Singing II	2	MUS PERF 419	Advanced Trumpet	2-4
MUSIC 497	Special Topics in Music	1-3	MUS PERF 421	Advanced Trombone	2-4
MUSIC 499	Directed Study	1-3	MUS PERF 423	Advanced Euphonium	2-4
MUSIC 502	Figured Bass and Basso Continuo	3	MUS PERF 425	Advanced Tuba	2-4
MUSIC 511	Historical Performance Practices	3	MUS PERF 427	Advanced Percussion	2-4
MUSIC 513	Survey of Opera	3	MUS PERF 431	Advanced Violin	2-4
			MUS PERF 433	Advanced Viola	2-4
			MUS PERF 435	Advanced Cello	2-4
			MUS PERF 437	Advanced Double Bass	2-4
			MUS PERF 439	Advanced Harp	2-4
			MUS PERF 440	Advanced Guitar	2-4
			MUS PERF 441	Advanced Jazz Studio Instruction	2-4
			MUS PERF 447	Fourth Year Composition	3
			MUS PERF 448	Fourth Year Composition	3
			MUS PERF 457	Jazz Composition and Arranging	3

MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2

## HONORS IN THE MAJOR

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.300 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.500 GPA in all music coursework
- Engage a faculty member and plan 12 credits of honors curriculum coursework; submit this plan to the undergraduate music advisor.
- Prior to beginning work on the Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

To complete and earn Honors in any Music major, students must satisfy the requirements for the major and these additional requirements:

- Earn a minimum 3.300 University GPA
- Earn a minimum 3.500 GPA in the major
- MUSIC 681–MUSIC 682 for a total of 6 credits
- 12 credits of Honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate technical proficiency in the major performance medium.
2. Demonstrate the ability to learn independently and collaboratively.
3. Integrate knowledge across domains of music research and applied studies.
4. Demonstrate artistry, creativity, and discipline in preparation and performance.
5. Employ an advanced vocabulary to discuss music verbally and in writing.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Student must work with a School of Music faculty member to create a cohesive plan to meet requirements; the plan must be approved by the appropriate faculty area committee(s) and by the Curriculum Committee.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Ethnic Studies	3
MUSIC 121 & MUSIC 171	4	Quantitative Reasoning A	3
MUSIC 200-level (Performance Study)	2	MUSIC 122 & MUSIC 172	4
Music emphasis course	1	MUS PERF 200-level (Performance Study)	2
Foreign Language (if required)	4	Music emphasis course	1
		INTER-LS 210	1
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 Communication Part B	3
Biological Science Breadth	3	Physical Science Breadth	3
MUSIC 211	3	MUSIC 212	3
MUS PERF 2XX (Performance Study)	2	Social Science Breadth	6
Music emphasis course	1	Submit music emphasis study plan for approval by departmental Curriculum Committee	

Social Science Breadth	3		
	<b>15</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Declare the major		Music core course	3
Music emphasis course	3	Music emphasis course	3
Music Core course	3	Literature Breadth	6
Literature Breadth	3	Natural Science Breadth	4
Natural Science Breadth	7		
	<b>16</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Music emphasis course	6	Music emphasis course	1
Social Science Breadth	3	Electives	14
Electives	6		
	<b>15</b>		<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****UNDERGRADUATE ADVISING****Advisor: Todd Reck**

Office: 3561G Humanities Building

Email: [ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)

Office phone: (608) 263-1918

**If you wish to schedule an advising appointment, please note the following:**

- Online access to schedule advising appointments is restricted to students who applied to, auditioned for, and have been admitted to the Mead Witter School of Music.
- Students considering applying to the School of Music should contact our undergraduate admissions coordinator, Jared Jellison, at [admissions@music.wisc.edu](mailto:admissions@music.wisc.edu) or (608) 263-5986.

**INDIVIDUAL ACADEMIC ADVISING**

Current music majors can schedule an appointment with Todd via Starfish, which can be accessed via your MyUW student portal. If uncertain how to use Starfish, please see <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>

Appointments can also be made by phone at 608-263-1918.

**BE PREPARED FOR YOUR ADVISING APPOINTMENT**

Please bring the following to your appointment:

- Any questions you have about requirements, extracurricular opportunities, study abroad, or whatever is on your mind.
- A pen and paper for note taking.
- Any form you may need signed. Be sure you have filled out all pertinent information and have read the form/document thoroughly.

**WHAT TO EXPECT FROM AN ACADEMIC ADVISING APPOINTMENT**

Academic advisors help students learn and understand their degree and major requirements. Programs in the Mead Witter School of Music are highly sequential, and some required courses are offered only once each year. Many of our undergraduates are interested in earning an additional major and/or certificate; with careful planning each semester, this is possible. Advisors often can explain some of the differences between courses that meet the same degree requirement. For students considering study abroad, it's a good idea to begin exploring programs early in your degree and work with your advisor to determine the program length (semester/summer/year) that will best fit your needs and interests.

It is recommended that you see an advisor at least once a semester to plan your courses and check progress toward degree completion. Students sometimes need clarification of degree requirements, particularly if they are considering switching to a different major/degree program within the School of Music.

**GENERAL CONTACT INFORMATION:**

Mead Witter School of Music  
3561 Mosse Humanities Building  
455 North Park Street  
Madison, WI 53706-1483  
(608) 263-1900  
[music@music.wisc.edu](mailto:music@music.wisc.edu)

**SCHOOL OF EDUCATION CAREER CENTER**

Need assistance with preparing for your next step after college?  
Want to explore career options linked to Music Education major?  
Want help beginning your job search and don't know where to start?  
Need assistance with your résumé, cover letter, or interviewing skills?  
Want to connect with potential employers?

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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## PEOPLE

**Faculty:** *Professors* Cook (director), Calderón, Chisholm, Di Sanza, Dominguez, Fischer, Fulmer, Hetzler, Johnson, Karp, Perry, Rowe, Schwendinger, Taylor, Teeple, Thimmig, Vallon, Wallmann; *Associate Professors* Butler, Farah, Grabois, Nelson, Ronis; *Assistant Professors* Chana, Cornish, Flowers, Laurenz, Lee, Lewis, Rathgeber, Sans, Walsh, Weinstein-Reimann; *Marching Band Director* Pompey; *Teaching Faculty* Brailey, Curry, Gladstone, Gonzalez, Koester, Pompey, Purdue, Rottmayer, Weinholts, Wohn; *Faculty Associate* Rich; *Lecturers* Lee, McCullough, Mok, Patenaude, Tran, Waldo; *Teaching Specialists* Hammes, Ross

The faculty of the Mead Witter School of Music is a distinguished group of educators, performing musicians, and active scholars. The backgrounds of performance faculty include rich experiences as professional musicians, researchers, recording artists, and entrepreneurs. Faculty in music education have particular insight into their field as a result of their

backgrounds as school educators, performers, and scholars. In areas such as music theory and musicology, the musical community has high regard for the past and current contributions to the study of musical theory, historical perspectives on music, the role of music in societies around the world, and the unique contributions of American musicians. Teaching is a priority for the faculty, who are readily accessible to students for advice and support. Faculty, staff, and students cooperate in extraordinary ways with joint ventures that reach across disciplines both in research or instruction.

## RESOURCES AND SCHOLARSHIPS

### OFFICE OF STUDENT FINANCIAL AID

Prospective music students should contact the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall #9701, Madison, WI 53715-1382; 608-262-3060) to obtain information about grants and loans when returning the application for admission.

### SCHOOL OF MUSIC SCHOLARSHIPS

Some funds are available for scholarships awarded by the School of Music to outstanding applicants. It is always advisable to complete the Free Application for Federal Student Aid (FAFSA) and submit it to the Office of Student Financial Aid. Application materials will serve as support for music scholarship consideration.

**Scholarship applicants must audition in person and must take the Theory Placement Examination on the audition day in order to be considered for an award.** After the audition and review of materials, the associate director will notify each applicant about the scholarship decision. Accompanying each award notification will be a Letter of Commitment, to be signed and returned to the School of Music. Criteria used for awarding scholarships are:

1. Quality of the performance audition
2. High school and/or college academic record
3. Letters of recommendation

Most Mead Witter School of Music scholarships are awarded for a four-year period. The music faculty reviews every scholarship award each semester and expects that each student on scholarship will maintain satisfactory progress toward completing the music major and degree requirements, continue to make significant contributions in performing organizations or accompanying, and maintain a minimum 3.000 grade point average. Please see the Mead Witter School of Music website (<http://www.music.wisc.edu>) for more information regarding music scholarships.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Music (<https://nasm.arts-accredit.org>)

Accreditation status: Accredited. Next accreditation review: 2022-2023



*Additional Music History. Complete one of the following:* 3

MUSIC 411	Survey of Music in the Middle Ages
MUSIC 412	Survey of Music in the Renaissance
MUSIC 413	Survey of Music in the Baroque Era
MUSIC 414	Survey of Music in the Classic Era
MUSIC 415	Survey of Music in the Romantic Era
MUSIC 416	Survey of Music in the Twentieth Century
MUSIC 419	Music in the United States
MUSIC 511	Historical Performance Practices
MUSIC 513	Survey of Opera

**Total Credits** 23

2

A student may complete a proficiency exam in piano, instead of completing this course.

## MUSICAL ORGANIZATIONS AND ACCOMPANYING

**Code Title Credits**  
**Complete at least 7 semesters in the following:** 7

MUSIC 40	Wind Ensemble
MUSIC 41	Concert Band
MUSIC 50	Concert Choir
MUSIC 52	Treble Choir
MUSIC 53	Choral Union
MUSIC 55	Masters' Singers
MUSIC 56	Chorale
MUSIC 58	Madrigal Singers
MUSIC 59	University Chorus
MUSIC 61	Chamber Orchestra
MUSIC 62	University Symphony Orchestra
MUSIC 256	University Opera
MUSIC 257	Opera Workshop
MUSIC 270	Ensemble-Guitar
MUS PERF 251	Keyboard Skills (keyboard majors only)
MUS PERF 242	Accompanying (keyboard majors only)
MUS PERF 342	Piano Accompanying Lab (keyboard majors only)

## ELECTIVES TO MEET 42 CREDITS IN THE MAJOR<sup>3</sup>

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 43	University Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1

MUSIC 59	University Chorus	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 107	Music & Film	3
MUSIC 201	Music and Society	2
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC 340	Pedagogy	1-2
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 346	Repertoire	1-2
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3
MUSIC 405	Seminar: Cultural Study of Music	3
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC 461	Collegium Musicum	1
MUSIC 466	Diction for Singers	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 467	Language Diction for Singing I	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC 511	Historical Performance Practices	3
MUSIC 513	Survey of Opera	3
MUSIC 523	Orchestration I	3
MUS PERF 101	Beginning Class Piano	2
MUS PERF 102	Beginning Class Piano	2
MUS PERF 103	Elementary Class Piano	2



MUS PERF 104	Intermediate Class Piano	2	MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 108	Jazz Class Piano	2	MUS PERF 421	Advanced Trombone	2-4
MUS PERF 143	Introduction to Performance: Voice	1	MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 148	First Year Composition	3	MUS PERF 425	Advanced Tuba	2-4
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	2	MUS PERF 427	Advanced Percussion	2-4
MUS PERF 201	Elementary/Intermediate Piano	2-4	MUS PERF 431	Advanced Violin	2-4
MUS PERF 202	Elementary/Intermediate Harpsichord	2-4	MUS PERF 433	Advanced Viola	2-4
MUS PERF 203	Elementary/Intermediate Organ	2-4	MUS PERF 435	Advanced Cello	2-4
MUS PERF 205	Elementary/Intermediate Voice	2-4	MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 207	Elementary/Intermediate Flute	2-4	MUS PERF 439	Advanced Harp	2-4
MUS PERF 209	Elementary/Intermediate Oboe	2-4	MUS PERF 440	Advanced Guitar	2-4
MUS PERF 211	Elementary/Intermediate Clarinet	2-4	MUS PERF 447	Fourth Year Composition	3
MUS PERF 213	Elementary/Intermediate Saxophone	2-4	MUS PERF 448	Fourth Year Composition	3
MUS PERF 215	Elementary/Intermediate Bassoon	2-4	MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 217	Elementary/Intermediate Horn	2-4	MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 219	Elementary/Intermediate Trumpet	2-4			
MUS PERF 221	Elementary/Intermediate Trombone	2-4			
MUS PERF 223	Elementary/Intermediate Euphonium	2-4			
MUS PERF 225	Elementary/Intermediate Tuba	2-4			
MUS PERF 227	Elementary/Intermediate Percussion	2-4			
MUS PERF 231	Elementary/Intermediate Violin	2-4			
MUS PERF 233	Elementary/Intermediate Viola	2-4			
MUS PERF 235	Elementary/Intermediate Cello	2-4			
MUS PERF 237	Elementary/Intermediate Double Bass	2-4			
MUS PERF 239	Elementary/Intermediate Harp	2-4			
MUS PERF 240	Elementary/Intermediate Guitar	2-4			
MUS PERF 242	Accompanying	2			
MUS PERF 247	Second Year Composition	3			
MUS PERF 248	Second Year Composition	3			
MUS PERF 251	Keyboard Skills	2			
MUS PERF 311	Advanced Techniques: Clarinet	1-2			
MUS PERF 327	Advanced Techniques: Percussion	1-2			
MUS PERF 331	Advanced Techniques: Violin	1-2			
MUS PERF 333	Advanced Techniques: Viola	1-2			
MUS PERF 339	Advanced Techniques: Harp	1-2			
MUS PERF 342	Piano Accompanying Lab	1			
MUS PERF 347	Third Year Composition	3			
MUS PERF 348	Third Year Composition	3			
MUS PERF 401	Advanced Piano	2-4			
MUS PERF 402	Advanced Harpsichord	2-4			
MUS PERF 403	Advanced Organ	2-4			
MUS PERF 405	Advanced Voice	2-4			
MUS PERF 407	Advanced Flute	2-4			
MUS PERF 409	Advanced Oboe	2-4			
MUS PERF 411	Advanced Clarinet	2-4			
MUS PERF 413	Advanced Saxophone	2-4			
MUS PERF 415	Advanced Bassoon	2-4			
MUS PERF 417	Advanced Horn	2-4			

**3**

A maximum of 16 credits can be taken from courses numbered below 100.

**4**

The same requirements for Residence & Quality of Work apply to the Performance Option. The same Honors in the Major requirements apply, as well.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
Communication A		3 Quantitative Reasoning-A	3
MUSIC 121 & MUSIC 171	4	MUSIC 122 & MUSIC 172	4
Performance Study: MUS PERF 200-level	2	Performance Study: MUS PERF 200-level	2
Performing Organization/ Accompanying	1-2	Performing Organization/ Accompanying	1-2
Foreign Language (if required)	4	MUS PERF 101 (or as placed)	2
		Literature Breadth	3
	<b>15</b>		<b>16</b>

**Second Year**

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 Ethnic Studies	4

MUSIC 221 & MUSIC 271 (Music Theory)	4 Communication B	4
MUSIC 211 (Music History)	3 MUSIC 212 (Music History)	3
Performance Study: MUS PERF 200-level	2 Performance Study: MUS PERF 200-level	2
Performing Organization/ Accompanying	1 Performing Organization/ Accompanying	1
MUS PERF 102	2 INTER-LS 210	1
	<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Performance Study: MUS PERF 400-level	2	Performance Study: MUS PERF 400-level	2
Performing Organization/ Accompanying	1	Performing Organization/ Accompanying	1
Physical Science Breadth	3	Upper-level Music History	3
Social Science Breadth	4	Biological Science Breadth	3
Literature Breadth	3	Social Science Breadth	4
Elective	1	Electives	2
	<b>14</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Performance Study: MUS PERF 400-level	2	Natural Science Breadth	3
Performing Organization/ Accompanying	1	Electives	12
Natural Science Breadth	6		
Social Science Breadth	4		
Electives	2		
	<b>15</b>		<b>15</b>

**Total Credits 120****MUSIC: EDUCATION, B.M.****VALUES AND EDUCATIONAL PRIORITIES**

At the Mead Witter School of Music

- we teach by example, offering participatory, mentor-driven education;
- we provide individualized instruction and flexible curricula that encourage students to find their own musical pathways;
- we foster musical excellence and high academic standards;
- our faculty exhibit the best of their respective fields, are deeply engaged in artistic scholarship and research, and are committed to teaching at all levels;
- we whole-heartedly embrace the Wisconsin Idea;

- we have created a dynamic educational community, part of a large and vibrant research university within a city that values and supports the arts.

The Mead Witter School of Music enriches students' educational experience by hosting guest artists and scholars for master classes, recitals, colloquia, seminars, and festivals. Its performing organizations and ensembles perform more than 350 recitals and concerts every year, making a significant contribution to the cultural life of the university and the wider Madison community. Facilities specifically designed for music study and performance offer excellent resources for students to pursue their interests.

In addition to a thriving undergraduate student body, B.M.: Music Education students have the advantage of working side-by-side with students in master's-level and doctoral-level music programs. Working collegially in class and studio, making music together on stage and off, and building professional relationships across program boundaries all enable the sharing of expertise, experience, and perspectives and add immeasurably to every student's development.

The music degree programs are demanding and require care in taking courses in the proper sequence. Graduation can be delayed if a course is not taken in the appropriate semester. Refer to the Requirements and Four-Year Plan tabs for more details.

**THE MUSIC EDUCATION UNDERGRADUATE MAJOR**

The undergraduate music education major offers two options: a specialty in *Instrumental Music* and a specialty in *Choral Music*. Regardless of chosen specialty, the Degree Requirements prepare students to teach in all areas of Music (K-12) instruction including General Music. Upon completion of both the BM: Music Education and additional statutory and certification requirements, students may choose to apply for a Wisconsin teaching license in Music (K-12). Music Education is a program offered jointly by the School of Music and the School of Education. The Bachelor of Music: Education degree is conferred by the College of Letters & Science; teacher certification is earned through the School of Education.

Recent revisions to the music education curricula accomplish several important goals:

- Enable broad teaching certification for music instruction in Wisconsin's elementary and secondary schools grades K through 12. Students may specialize in vocal or instrumental music, but all students successfully completing the program and additional certification requirements will qualify for certification in Music (K-12) in accordance with Wisconsin's PI 34 requirements as outlined by the Department of Public Instruction.
- Explore the relationships between popular culture and music education. Graduates will be prepared to teach multiple forms of musical literacy, not just the traditional band, orchestra, and choral curriculum.
- Expand the number of musical styles studied in the curriculum. Students also participate in performance ensembles that reflect the diverse array of musical activities in today's schools.
- Offer an introductory music education class to sophomores prior to admission into the program.
- Provide instruction and experiences so that graduates can teach in culturally responsive ways.

- Increase performance collaboration between students in the instrumental and vocal tracks.
- Create an interdisciplinary program by including a core set of courses for all music education students.
- Enable potential completion of the undergraduate degree in four years, including the final semester of student teaching.

Although these programs are designed with the goal of preparing teachers to work in K-12 schools, the programs also provide a good preparation for individuals seeking careers in continuing education or music education-related fields.

The student's principal performance area should be consistent with the chosen major option. One or more additional performance areas may be required. Prospective music education majors must audition and be accepted into any additional performance areas at the music major level (200 level) of performance study prior to beginning the methods and practicum sequence. Mead Witter School of Music cannot guarantee admission to additional performance areas, nor can it guarantee that appropriate substitute coursework will be available. During the time a student is enrolled in degree work, all performance study is expected to take place at UW-Madison.

## HOW TO GET IN

### ADMISSION TO THE BACHELOR OF MUSIC: EDUCATION PROGRAM

To be admitted to the Mead Witter School of Music a student needs to apply to and be admitted by both UW-Madison and the Mead Witter School of Music:

- Prospective (new or transfer) and re-entry students should apply to UW-Madison through the Office of Admissions and Recruitment (<https://admissions.wisc.edu/>).
- All students must also complete an application and pass an audition. See the Mead Witter School of Music website (<https://music.wisc.edu/undergraduate-admissions/>) for more information. Questions about the Music application and audition process should be directed to the Music Undergraduate Audition and Admissions Coordinator ([admissions@music.wisc.edu](mailto:admissions@music.wisc.edu)).

### DECLARE THE MUSIC EDUCATION PROGRAM

Students admitted to UW-Madison and the Mead Witter School of Music will be declared in their music major or music degree program.

All students must make satisfactory progress, as described below, to continue in their major or degree program. Students not meeting these requirements should meet with the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) to discuss their options for continuing in the Mead Witter School of Music.

### MUSIC EDUCATION CONTINUATION REQUIREMENTS

Students must meet all of the requirements below to continue in the program. Students not meeting any one of these requirements will be

removed from the program and must choose a new major. Contact the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) for consideration of extenuating circumstances or if the student is considering a leave of absence (such as family emergency, personal wellness, study abroad, or approved accommodations)

#### (1) ENROLLMENT REQUIREMENTS

- Enroll every fall and spring semester in a course that meets the Performance Study Requirements, until that requirement is completed.
- Enroll in MUSIC 121 & MUSIC 171 to begin the music theory/history sequence in the first possible fall semester after declaration.

#### (2) PERFORMANCE STUDY JURY AND PROGRESS REPORT

At least once a year, students must pass a performance jury with their major instrument. The purpose of this jury will be to evaluate performance study progress and to set goals for the coming year. Students who do not pass will receive guidance about making improvements and a warning letter and will have a semester to work with their professor to make improvements needed to remain in the program.

#### (3) PROGRESSION TO 400-LEVEL PERFORMANCE STUDY

At the end of the fourth semester of enrollment in Performance Study, students will be evaluated for permission to advance to 400-level performance study. Students who do not meet progression requirements to advance to 400-level performance study may be given an additional semester to meet those requirements.

#### (4) MEET GPA REQUIREMENTS IN THREE AREAS:

As part of the Music Education audition process, the School of Music requires students to be meeting the following GPA requirements:

- 2.750 overall cumulative GPA
- 3.000 cumulative GPA in all MUSIC and MUSIC PERFORMANCE courses
- 2.500 cumulative GPA in music theory (MUSIC 121, MUSIC 171, MUSIC 122, MUSIC 172, MUSIC 221, MUSIC 271, MUSIC 222, and MUSIC 272) and music history (MUSIC 211 and MUSIC 212)

#### (5) MUSIC EDUCATION TEACHER EDUCATION PROGRAM (METEP) APPLICATION, AUDITION, AND BACKGROUND CHECK

While enrolled in MUSIC/CURRIC 300, students declared in Music Education will be required to:

- Complete the METEP application
- Pass a music education audition
- Pass a criminal background check
- Students must meet all of these requirements before enrolling in field placement (MUSIC/CURRIC 337, MUSIC/CURRIC 409 and MUSIC/CURRIC 410).
- Students who do not meet these requirements may not be able to continue in the BM-Music Education degree program and could be

referred to the L&S Academic Deans' Services to be undeclared and should meet with the Undergraduate Music Advisor to discuss alternative music major plans.

Note: Students declared in the Bachelor of Music: Education are not eligible to declare Music: Performance, or the Music major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF MUSIC

The Mead Witter School of Music (MWSOM) is a professional school within the College of Letters & Science (L&S). The College confers the Bachelor of Music degree for two distinct programs within the MWSOM: B.M.-Performance and B.M.-Education.

Students pursuing a Bachelor of Music degree in the College of Letters & Science must complete all of the requirements below. The B.M. is a special degree program; it is not considered a major. The B.M. degree is not available to students who intend to earn a degree outside the College of Letters & Science.

### BACHELOR OF MUSIC – DEGREE REQUIREMENTS

- |                  |   |
|------------------|---|
| Foreign Language | Complete the second unit of a foreign language (some Named Options required additional or specific languages) |
|------------------|---|

Depth of Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Gain admission to and complete one option within the degree program.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### REQUIREMENTS FOR THE PROGRAM

The Bachelor of Music: Education program includes core requirements common to both options within the program, as well as specific requirements unique to each option. Requirements common to both options are detailed below. Refer to the Named Options section below for links to the specific requirements of a particular option within the program.

### REQUIREMENTS FOR BOTH MUSIC EDUCATION PROGRAM OPTIONS

All students in the Bachelor of Music: Education program must complete the following requirements:

Code	Title	Credits
<b>Music</b>		
<i>Music Theory/Aural Skills (complete all):</i>		16
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<i>Music History (complete both):</i>		6
MUSIC 211	Survey of the History of Western Music	
MUSIC 212	Survey of the History of Western Music	
<i>Non-Western Ensemble or Jazz Ensemble (complete 2 credits):</i>		2
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
<i>Keyboard Skills (complete 4 credits):</i>		4
All students must pass MUS PERF 104 keyboard proficiency. Extra credits earned in reaching proficiency will count as music electives.		
MUS PERF 103	Elementary Class Piano	
MUS PERF 104	Intermediate Class Piano	

<i>Jazz (complete 2 credits):</i>		2
MUS PERF 108	Jazz Class Piano	
or MUSIC 331	Jazz Improvisation	
<i>Global Music Cultures (complete 3 credits):</i>		3
MUSIC 102 Jazz in 20th-Century America		
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 202	Delta Blues	
MUSIC 203	American Ethnicities and Popular Song	
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion	
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	
MUSIC 319	Topics in Music and Ethnicity in the United States	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC 405	Seminar: Cultural Study of Music	
<i>Conducting (complete both):</i>		4
MUSIC 253	Conducting	
MUSIC 254	Conducting	
<b>Music Education</b>		
<i>Composition, Arrangement, &amp; Orchestration for the Music Teacher</i>		2
MUSIC/ CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	
<i>Teaching Popular Music (complete both):</i>		2
MUSIC/ CURRIC 420	Teaching Popular Instrumental Music 1	
MUSIC/ CURRIC 421	Teaching Popular Instrumental Music 2	
<i>Music Education Professional Sequence (complete all):</i>		8
MUSIC/ CURRIC 300	Principles of Music Education	
MUSIC/ CURRIC 301 & MUSIC/ CURRIC 337	Music Learning and Teaching 1 and Practicum in Teaching Music	
MUSIC/ CURRIC 302 & MUSIC/ CURRIC 337	Music Learning and Teaching 2 and Practicum in Teaching Music	
<b>Education</b>		
<i>Human Development (complete one):</i>		3
ED PSYCH 320	Human Development in Infancy and Childhood	
or ED PSYCH 320	Human Development in Adolescence	

<i>Learning</i>		3
ED PSYCH 301	How People Learn	
<i>Foundations of the Profession (complete one):</i>		3
ED POL 300	School and Society	
or ED POL/ HISTORY 412	History of American Education	
<i>Special Education</i>		3
RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	
<i>Literacy</i>		3
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	
<b>Total Credits</b>		<b>64</b>

## ELECTIVES FOR THE DEGREE TO REACH 120 CREDITS

In addition to the requirements for the program, students need to earn additional free elective credit to total 120 credits to graduate.

## FURTHER DETAILS ON CERTIFICATION REQUIREMENTS

In addition to completing the requirements for the BM: Music Education program, students must also complete the statutory and certification requirements established by PI 34's Administrative Code and enacted by the Wisconsin Department of Public Instruction (DPI). **Completing the requirements for the BM: Music Education degree alone is not sufficient to obtain a music education license in the state of Wisconsin.** For more information see Certification/Licensure page.

Some specific expectations for teaching licensure must be met while taking coursework.

- Multicultural Education and Human Relations: 50 hours of field experience are satisfied for music education students who successfully complete the required two semesters of CURRIC/MUSIC 337 Practicum in Teaching Music.
- Conflict Resolution Workshop: this non-credit bearing requirement is taught/fulfilled in CURRIC/MUSIC 300 Principles of Music Education.
- American Indian Studies and Education (Wis. Act 31): There are a variety of ways to earn certification. Consult with the MWSOM undergraduate advisor.
- Teacher Performance Assessment conducted by METEP faculty during student teaching semester.

## NAMED OPTIONS

View as listView as grid

- MUSIC: EDUCATION: CHORAL/GENERAL, B.M. (P. 1233)
- MUSIC: EDUCATION: INSTRUMENTAL/GENERAL, B.M. (P. 1234)

## CHOOSING A MUSIC EDUCATION OPTION

The music education major consists of two main options, both leading to certification at both the elementary and secondary levels. Students

choose to complete the certification option in either *General and Instrumental Music* or *General and Choral Music*. The Bachelor of Music: Education degree requires a minimum of 120 credits. The Undergraduate Advisor, supported by the music education faculty, can advise you on which option is most suited to your goals. Information on how to apply to the Music Education program can be found under the "How to Get In" tab.

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA in all MUSIC, MUS PERF, and program courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the program, in residence
- 15 credits in MUSIC and/or MUS PERF, taken on the UW–Madison campus

## UPPER-LEVEL COURSES

The following courses are approved for upper-level credit in both options of the Bachelor of Music: Education program:

### Music

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 61	Chamber Orchestra	1
MUSIC 62	University Symphony Orchestra	1
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 221	Musica Practica 3	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 252	Introduction to Conducting and Pedagogy	2
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 271	Musica Practica: Aural Skills 3	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC/CURRIC 301	Music Learning and Teaching 1	2
MUSIC/CURRIC 303	Fieldwork in Music Communities	1

MUSIC/CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2
MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity	3
MUSIC/AFROAMER/DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3
MUSIC 331	Jazz Improvisation	3
MUSIC 332	Jazz Improvisation	3
MUSIC/CURRIC 337	Practicum in Teaching Music	1
MUSIC 340	Pedagogy	1-2
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1
MUSIC 345	Practicum in String Pedagogy	2
MUSIC 346	Repertoire	1-2
MUSIC/FOLKLORE 402	Musical Cultures of the World	3
MUSIC 405	Seminar: Cultural Study of Music	3
MUSIC/CURRIC 409	Student Teaching in General and Vocal Music	6-12
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	6-12
MUSIC 411	Survey of Music in the Middle Ages	3
MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 419	Music in the United States	3
MUSIC/CURRIC 420	Teaching Popular Instrumental Music 1	1
MUSIC/CURRIC 421	Teaching Popular Instrumental Music 2	1
MUSIC 461	Collegium Musicum	1
MUSIC 463	Acting for Singers	1
MUSIC 465	Marching Band Techniques	1
MUSIC 466	Diction for Singers	2
MUSIC 467	Language Diction for Singing I	2
MUSIC 468	Language Diction for Singing II	2
MUSIC 497	Special Topics in Music	1-3
MUSIC 499	Directed Study	1-3
MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC 511	Historical Performance Practices	3
MUSIC 513	Survey of Opera	3
MUSIC/FOLKLORE 515	Proseminar in Ethnomusicology	3
MUSIC 523	Orchestration I	3
MUSIC 540	Advanced Pedagogy	2
MUSIC 541	Seminar in Choral Literature	2
MUSIC 546	String Literature	2

MUSIC 548	Piano Pedagogy II	3
MUSIC 591	Organ Literature and Design	2
MUSIC 621	Renaissance Polyphony	3
MUSIC 622	Baroque Counterpoint	3
MUSIC 623	Form and Analysis	2-3
MUSIC 624	Form and Analysis II	2-3
MUSIC 629	Jazz Theory and Analysis	3
MUSIC 681	Senior Honors Thesis	3
MUSIC 682	Senior Honors Thesis	3

### Music Performance

Code	Title	Credits
MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUS PERF 327	Advanced Techniques: Percussion	1-2
MUS PERF 331	Advanced Techniques: Violin	1-2
MUS PERF 333	Advanced Techniques: Viola	1-2
MUS PERF 339	Advanced Techniques: Harp	1-2
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4
MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4
MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 441	Advanced Jazz Studio Instruction	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. For additional certification requirements and information about applying for a license, see Teacher Education Center (<https://tec.education.wisc.edu/>).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate proficiency in foundational concepts of Pre-K-12 music education: planning, delivering, and assessing music learning experiences to a diverse population of learners.
2. Demonstrate the ability to integrate knowledge in music learning and teaching to bring novel, musical perspectives and solutions to challenging social, musical, and technological challenges in Pre-K-12 music settings.
3. Demonstrate the ability to think critically, musically, and creatively as a music educator to synthesize, analyze, and integrate ideas for decision-making and problem-solving in the best interest of a diverse student population.
4. Demonstrate the ability to communicate effectively with multiple and diverse constituencies (students, parents, colleagues, community) to share knowledge, values, and beliefs regarding music learning and teaching.
5. Develop and demonstrate the professionalism required as a music educator in the field of music education: acting ethically, allowing space for diverse views, recognizing and reducing bias in one's own thinking, and contributing to the profession as a whole.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING

**Advisor: Todd Reck**

Office: 3561G Humanities Building  
 Email: [ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)  
 Office phone: (608) 263-1918

**If you wish to schedule an advising appointment, please note the following:**

- Online access to schedule advising appointments is restricted to students who applied to, auditioned for, and have been admitted to the Mead Witter School of Music.
- Students considering applying to the School of Music should contact our undergraduate admissions coordinator, Jared Jellison, at [admissions@music.wisc.edu](mailto:admissions@music.wisc.edu) or (608) 263-5986.

### INDIVIDUAL ACADEMIC ADVISING

Current music majors can schedule an appointment with Todd via Starfish, which can be accessed via your MyUW student portal. If uncertain how to use Starfish, please see <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>

Appointments can also be made by phone at 608-263-1918.

### BE PREPARED FOR YOUR ADVISING APPOINTMENT

Please bring the following to your appointment:

- Any questions you have about requirements, extracurricular opportunities, study abroad, or whatever is on your mind.
- A pen and paper for note taking.
- Any form you may need signed. Be sure you have filled out all pertinent information and have read the form/document thoroughly.

### WHAT TO EXPECT FROM AN ACADEMIC ADVISING APPOINTMENT

Academic advisors help students learn and understand their degree and major requirements. Programs in the Mead Witter School of Music are highly sequential, and some required courses are offered only once each year. Many of our undergraduates are interested in earning an additional major and/or certificate; with careful planning each semester, this is possible. Advisors often can explain some of the differences between courses that meet the same degree requirement. For students considering study abroad, it's a good idea to begin exploring programs early in your degree and work with your advisor to determine the program length (semester/summer/year) that will best fit your needs and interests.

It is recommended that you see an advisor at least once a semester to plan your courses and check progress toward degree completion. Students sometimes need clarification of degree requirements, particularly if they are considering switching to a different major/degree program within the School of Music.

### GENERAL CONTACT INFORMATION:

Mead Witter School of Music  
 3561 Mosse Humanities Building  
 455 North Park Street  
 Madison, WI 53706-1483

(608) 263-1900  
[music@music.wisc.edu](mailto:music@music.wisc.edu)

### SCHOOL OF EDUCATION CAREER CENTER

Need assistance with preparing for your next step after college?  
 Want to explore career options linked to Music Education major?  
 Want help beginning your job search and don't know where to start?  
 Need assistance with your résumé, cover letter, or interviewing skills?  
 Want to connect with potential employers?

Check out the School of Education Career Center! (<https://careercenter.education.wisc.edu/>)

## PEOPLE

**Faculty:** *Professors* Cook (director), Calderón, Chisholm, Di Sanza, Dominguez, Fischer, Fulmer, Hetzler, Johnson, Karp, Perry, Rowe, Schwendinger, Taylor, Teeple, Thimmig, Vallon, Wallmann; *Associate Professors* Butler, Farah, Grabois, Nelson, Ronis; *Assistant Professors* Chana, Cornish, Flowers, Laurenz, Lee, Lewis, Rathgeber, Sans, Walsh, Weinstein-Reimann; *Marching Band Director* Pompey; *Teaching Faculty* Brailey, Curry, Gladstone, Gonzalez, Koester, Pompey, Purdue, Rottmayer, Weinholts, Wohn; *Faculty Associate* Rich; *Lecturers* Lee, McCullough, Mok, Patenaude, Tran, Waldo; *Teaching Specialists* Hammes, Ross

The faculty of the Mead Witter School of Music is a distinguished group of educators, performing musicians, and active scholars. The backgrounds of performance faculty include rich experiences as professional musicians, researchers, recording artists, and entrepreneurs. Faculty in music education have particular insight into their field as a result of their backgrounds as school educators, performers, and scholars. In areas such as music theory and musicology, the musical community has high regard for the past and current contributions to the study of musical theory, historical perspectives on music, the role of music in societies around the world, and the unique contributions of American musicians. Teaching is a priority for the faculty, who are readily accessible to students for advice and support. Faculty, staff, and students cooperate in extraordinary ways with joint ventures that reach across disciplines both in research or instruction.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

Student interested in certification must, in addition to completing UW-Madison's program requirements, also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. For additional certification requirements and information about applying for a license, see Teacher Education Center (<https://tec.education.wisc.edu/>).

The Department of Public Instruction (DPI) requires higher GPAs for licensure. Students who meet the GPA requirements for the BM: Music Education and not the GPA requirements for licensure will need to work with the Undergraduate Music Advisor, the Music Education Faculty, and the Teacher Education Center to complete alternative work. Requirements for licensure are as follows:



- 3.000 cumulative GPA in all MUSIC and MUSIC PERFORMANCE coursework
- 2.750 cumulative GPA in all UW-Madison coursework

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Oklahoma, Ohio, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, West Virginia, Vermont, Washington, Wyoming, District of Columbia, Guam, Northern Mariana Islands, U.S. Virgin Islands, American Samoa, Puerto Rico

MUS PERF 205	Elementary/Intermediate Voice	
MUS PERF 201	Elementary/Intermediate Piano	
MUS PERF 240	Elementary/Intermediate Guitar	
<b>Advanced (complete 6 credits):</b>		<b>6</b>
MUS PERF 405	Advanced Voice	
MUS PERF 401	Advanced Piano	
MUS PERF 440	Advanced Guitar	
<b>Large Choral Ensemble (complete 6 credits):</b>		<b>6</b>
MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
<b>Diction for Singers</b>		<b>2</b>
MUSIC 466	Diction for Singers	
<b>Fundamentals (complete 3 credits):</b>		<b>3</b>
MUS PERF 21	Brass Fundamentals	
MUS PERF 22	Strings Fundamentals	
MUS PERF 23	Woodwind Fundamentals	
MUS PERF 27	Fundamentals-Drumset	
<b>Student Teaching</b>		
MUSIC/CURRIC 409	Student Teaching in General and Vocal Music	12
<b>Total Credits</b>		<b>37</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Elementary/Intermediate	2	Elementary/Intermediate	2
Applied Study Course		Applied Study Course	
Large Choral Ensemble	1	Large Choral Ensemble	1
MUS PERF 103	2	MUS PERF 104	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
Ethnic Studies	3	Global Music Cultures	3
Communication A	3	Quantitative Reasoning A	3
<b>15</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
Elementary/Intermediate	2	Elementary/Intermediate	2
Applied Study Course		Applied Study Course	
Large Choral Ensemble	1	Large Choral Ensemble	1

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Music (<https://nasm.arts-accredit.org>)

Accreditation status: Accredited. Next accreditation review: 2022-2023.

## MUSIC: EDUCATION: CHORAL/GENERAL, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE CHORAL/GENERAL OPTION

Students in the Choral/General option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
	Elementary/Intermediate (complete 8 credits):	8

MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
CURRIC 305	3	MUS PERF 21, 22, 23, or 27	1
Quantitative Reasoning B / Natural Science	3	MUSIC/CURRIC 300	2
		Free Elective	2
	<b>16</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Advanced Applied Study Course	2	Advanced Applied Study Course	2
Large Choral Ensemble	1	Large Choral Ensemble	1
MUS PERF 108 or MUSIC 331	2	MUSIC 260, 262, or 266	1
MUSIC 253	2	MUSIC 254	2
MUSIC 466	2	MUS PERF 21, 22, 23, or 27	1
MUSIC/CURRIC 420	1	MUSIC/CURRIC 421	1
MUSIC/CURRIC 301	2	MUSIC/CURRIC 302	2
MUSIC/CURRIC 337	1	MUSIC/CURRIC 337	1
ED PSYCH 301	3	ED POL 300 or 412	3
		Free Elective	2
	<b>16</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Advanced Applied Study Course	2	MUSIC/CURRIC 409	12
MUSIC 260, 262, or 266	1		
MUS PERF 21, 22, 23, or 27	1		
MUSIC/CURRIC 304	2		
ED PSYCH 320 or 321	3		
CURRIC/RP & SE 506	3		
Natural Science Breadth	3		
	<b>15</b>		<b>12</b>

**Total Credits 120**

# MUSIC: EDUCATION: INSTRUMENTAL/GENERAL, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE INSTRUMENTAL/GENERAL OPTION

Students in the Instrumental/General option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 8 credits in one of the following courses):</i>		<b>8</b>
MUS PERF 201	Elementary/Intermediate Piano	
MUS PERF 207	Elementary/Intermediate Flute	
MUS PERF 209	Elementary/Intermediate Oboe	
MUS PERF 211	Elementary/Intermediate Clarinet	
MUS PERF 213	Elementary/Intermediate Saxophone	
MUS PERF 215	Elementary/Intermediate Bassoon	
MUS PERF 217	Elementary/Intermediate Horn	
MUS PERF 219	Elementary/Intermediate Trumpet	
MUS PERF 221	Elementary/Intermediate Trombone	
MUS PERF 223	Elementary/Intermediate Euphonium	
MUS PERF 225	Elementary/Intermediate Tuba	
MUS PERF 227	Elementary/Intermediate Percussion	
MUS PERF 231	Elementary/Intermediate Violin	
MUS PERF 233	Elementary/Intermediate Viola	
MUS PERF 235	Elementary/Intermediate Cello	
MUS PERF 237	Elementary/Intermediate Double Bass	
MUS PERF 239	Elementary/Intermediate Harp	
MUS PERF 240	Elementary/Intermediate Guitar	
MUS PERF 241	Elementary/Intermediate Jazz Studio Instruction	
<i>Advanced (complete 6 credits in one of the following courses):</i>		<b>6</b>
MUS PERF 401	Advanced Piano	
MUS PERF 407	Advanced Flute	
MUS PERF 409	Advanced Oboe	
MUS PERF 411	Advanced Clarinet	
MUS PERF 413	Advanced Saxophone	
MUS PERF 415	Advanced Bassoon	
MUS PERF 417	Advanced Horn	
MUS PERF 419	Advanced Trumpet	
MUS PERF 421	Advanced Trombone	
MUS PERF 423	Advanced Euphonium	
MUS PERF 425	Advanced Tuba	
MUS PERF 427	Advanced Percussion	
MUS PERF 431	Advanced Violin	
MUS PERF 433	Advanced Viola	
MUS PERF 435	Advanced Cello	
MUS PERF 437	Advanced Double Bass	
MUS PERF 439	Advanced Harp	
MUS PERF 440	Advanced Guitar	
MUS PERF 441	Advanced Jazz Studio Instruction	
<b>Large Instrumental Ensemble (complete 6 credits):</b>		<b>6</b>
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 62	University Symphony Orchestra	
<b>Large Choral Ensemble (complete 2 credits):</b>		<b>2</b>

MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
<b>Fundamentals (complete 4 credits):</b>		<b>4</b>
MUS PERF 21	Brass Fundamentals	
MUS PERF 22	Strings Fundamentals	
MUS PERF 23	Woodwind Fundamentals	
MUS PERF 27	Fundamentals-Percussion or MUS PERF 22Elementary/Intermediate Percussion	
<b>Voice Fundamentals</b>		<b>1</b>
MUS PERF 143	Introduction to Performance: Voice	
<b>Student Teaching</b>		
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	12
<b>Total Credits</b>		<b>39</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

<b>First Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Elementary/Intermediate Applied Study Course	2	Elementary/Intermediate Applied Study Course	2
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1
MUS PERF 103	2	MUS PERF 104	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
Ethnic Studies	3	Global Music Cultures	3
Communication A	3	MUS PERF 143	1
		Quantitative Reasoning A	3
		<b>15</b>	<b>16</b>

<b>Second Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Elementary/Intermediate Applied Study Course	2	Elementary/Intermediate Applied Study Course	2
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1
Large Choral Ensemble	1	Large Choral Ensemble	1
MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3

CURRIC 305	3	MUS PERF 23	1
Quantitative Reasoning B & Natural Science Breadth	3	MUSIC/CURRIC 300	2
		Free Elective	1
		<b>17</b>	<b>15</b>

<b>Third Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Advanced Applied Study Course	2	Advanced Applied Study Course	2
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1
MUS PERF 108 or MUSIC 331	2	MUSIC 260, 262, or 266	1
MUSIC 253	2	MUSIC 254	2
MUS PERF 21	1	MUS PERF 27 or 227	1
MUSIC/CURRIC 420	1	MUSIC/CURRIC 421	1
MUSIC/CURRIC 301	2	MUSIC/CURRIC 302	2
MUSIC/CURRIC 337	1	MUSIC/CURRIC 337	1
ED PSYCH 301	3	ED POL 300 or 412	3
		Free Elective	1
		<b>15</b>	<b>15</b>

<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Advanced Applied Study Course	2	MUSIC/CURRIC 410	12
MUSIC 260, 262, or 266	1		
MUS PERF 22	1		
MUSIC/CURRIC 304	2		
ED PSYCH 320 or 321	3		
CURRIC/RP & SE 506	3		
Natural Science Breadth	3		
		<b>15</b>	<b>12</b>

**Total Credits 120**

## MUSIC: PERFORMANCE, B.M.

### VALUES AND EDUCATIONAL PRIORITIES

At the Mead Witter School of Music

- we teach by example offering participatory, mentor-driven education;
- we provide individualized instruction and flexible curricula that encourage students to find their own musical pathways;
- we foster musical excellence and high academic standards;
- our faculty exhibit the best of their respective fields, are deeply engaged in artistic scholarship and research, and are committed to teaching at all levels;
- we whole-heartedly embrace the Wisconsin Idea;
- our department is a dynamic educational community, part of a large and vibrant research university within a city that values and supports the arts.

The Mead Witter School of Music enriches students' educational experience by hosting guest artists and scholars for master classes, recitals, colloquia, seminars, and festivals. Its performing organizations and ensembles perform more than 350 recitals and concerts every year, making a significant contribution to the cultural life of the university and the wider Madison community. Facilities specifically designed for music study and performance offer excellent resources for students to pursue their interests.

In addition to a thriving undergraduate student body, B.M.: Music Performance students have the advantage of working side-by-side with students in master's-level and doctoral-level music programs. Working collegially in class and studio, making music together on stage and off, and building professional relationships across program boundaries all enable the sharing of expertise, experience, and perspectives and add immeasurably to every student's development.

Majors in this program have professional interests in solo performance, chamber music performance, orchestra or wind ensemble performance, studio teaching (private or in a college or university), church music, conducting, music technology or production, opera or musical theater, or many combinations of these. Some students may consider this program as preparation for graduate study in music, arts administration, and other areas. The faculty has designed the curricula to include extensive course work in music (90 credits) while also meeting all UW-Madison General Education Requirements including Communication Parts A and B, Quantitative Reasoning Parts A and B, Natural Science, Social Science, and Ethnic Studies.

The music degree programs are demanding and require care in taking courses in the proper sequence. Though the programs have been designed to enable completion in four years, graduation could be delayed if courses are not taken in the appropriate sequence. Refer to the Requirements and Four-Year Plan tabs for more details.

## PEOPLE AND FACILITIES

The greatest asset of Mead Witter School of Music is its people—staff, faculty, and students—who are daily immersed in learning, building, researching, writing, and making music. Mentoring is the core of our teaching, manifest in one-on-one applied instruction as well as in small-group coaching and classes. Undergraduate students will build professional relationships with many faculty, form friendships with peers across the boundaries of degree programs, and collaborate with staff in addressing the practical matters of academic study. Extensive information on faculty, including biographies, is available here.

The Mosse Humanities Building, built in 1969, houses most of the music classrooms, rehearsal rooms, faculty studios, and 111 practice rooms. Most recitals and concerts take place in one of three performance spaces: Mills Concert Hall, Morphy Recital Hall, and Eastman Organ Recital Hall. The school's extensive collection of instruments, both common and unusual, is available to both faculty and students. Music Hall with its clock tower, built in 1879, is a campus landmark. Renovated in 1985, it is the home of the opera program. The Hamel Music Center opened in fall 2019 and includes Mead Witter Foundation Concert Hall, Collins Recital Hall, Sing Man & Florence Lee/Annette Kauffman Rehearsal Hall, and a professional recording studio.

Memorial Library is the home of the Mills Music Library, which offers extensive research and circulating collections, attractive study space, and personal staff assistance with research. Music materials on campus number over half a million, ranging from scores and sheet music to archival collections and historic audio recordings. Through Mills Music Library

and other UW-Madison libraries, students have access to a wide range of online research databases as well as millions of articles, books, and streaming media. All genres of music are represented, with notably strong collections in Americana and ethnic music. Nationally known special collections include the Tams-Witmark Collection, a treasury of early American musical theater materials, and the Wisconsin Music Archives.

## HOW TO GET IN

### ADMISSION TO THE BACHELOR OF MUSIC: PERFORMANCE PROGRAM

To be admitted to the Mead Witter School of Music a student needs to apply to and be admitted by both UW-Madison and the Mead Witter School of Music:

- Prospective (new or transfer) and re-entry students should apply to UW-Madison through the Office of Admissions and Recruitment (<https://admissions.wisc.edu/>).

All students must also complete an application and pass an audition. See the Mead Witter School of Music website (<https://music.wisc.edu/undergraduate-admissions/>) for more information. Questions about the Music application and audition process should be directed to the Music Undergraduate Audition and Admissions Coordinator ([admissions@music.wisc.edu](mailto:admissions@music.wisc.edu)).

Note: Students declared in the Bachelor of Music: Performance are not eligible to declare Music: Education, or the Music major.

### DECLARING THE BACHELOR OF MUSIC: PERFORMANCE PROGRAM

Students admitted to UW-Madison and the Mead Witter School of Music will be declared in their music major or music degree program.

All students must make satisfactory progress, as described below, to continue in their major or degree program. Students not meeting these requirements should meet with the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) to discuss their options for continuing in the Mead Witter School of Music.

### BACHELOR OF MUSIC: PERFORMANCE PROGRAM CONTINUATION REQUIREMENTS

Students must meet all of the requirements below to continue in the program. Students not meeting any one of these requirements will be removed from the program and must choose a new major. Contact the Undergraduate Music Advisor ([ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)) for consideration of extenuating circumstances or if the student is considering a leave of absence (such as family emergency, personal wellness, study abroad, or approved accommodations)

#### (1) ENROLLMENT REQUIREMENTS

- Enroll every fall and spring semester in a course that meets the Performance Study Requirements, until that requirement is completed.

- Enroll in MUSIC 121 & MUSIC 171 to begin the music theory/history sequence in the first possible fall semester after declaration.

## (2) PERFORMANCE STUDY JURY AND PROGRESS REPORT

At least once a year, students must pass a performance jury with their major instrument. The purpose of this jury will be to evaluate performance study progress and to set goals for the coming year. Students who do not pass will receive guidance about making improvements and a warning letter and will have a semester to work with their professor to make improvements needed to remain in the program.

## (3) PROGRESSION TO FOUR CREDIT PERFORMANCE STUDY

At the end of the second semester of enrollment in Performance Study, students will be evaluated for permission to advance to four credit performance study. Students who do not meet progression requirements to advance to four credit performance study may be given an additional semester to meet those requirements.

## (4) PROGRESSION TO 400-LEVEL PERFORMANCE STUDY

At the end of the fourth semester of enrollment in Performance Study, students will be evaluated for permission to advance to 400-level performance study. Students who do not meet progression requirements to advance to 400-level performance study may be given an additional semester to meet those requirements.

## (5) MEET GPA REQUIREMENTS IN THREE AREAS:

- 2.750 overall cumulative GPA
- 3.000 cumulative GPA in all MUSIC and MUSIC PERFORMANCE courses
- 2.500 cumulative GPA in music theory (MUSIC 121, MUSIC 171, MUSIC 122, MUSIC 172, MUSIC 221, MUSIC 271, MUSIC 222, and MUSIC 272) and music history (MUSIC 211 and MUSIC 212)

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

#### General Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE BREADTH AND DEGREE REQUIREMENTS: BACHELOR OF MUSIC

The Mead Witter School of Music (MWSom) is a professional school within the College of Letters & Science (L&S). The College confers the Bachelor of Music degree for two distinct programs within the MWSom: B.M.-Performance and B.M.-Education.

Students pursuing a Bachelor of Music degree in the College of Letters & Science must complete all of the requirements below. The B.M. is a special degree program; it is not considered a major. The B.M. degree is not available to students who intend to earn a degree outside the College of Letters & Science.

### BACHELOR OF MUSIC - DEGREE REQUIREMENTS

Foreign Language	Complete the second unit of a foreign language (some Named Options required additional or specific languages)
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Gain admission to and complete one option within the degree program.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## REQUIREMENTS FOR THE PROGRAM

The Bachelor of Music: Performance curriculum includes core requirements common to all options within the program, as well as specific requirements unique to each option. Requirements common to all options are detailed below. Refer to the Named Options section below for links to the specific requirements of a particular option within the program.

## REQUIREMENTS FOR ALL MUSIC PERFORMANCE PROGRAM OPTIONS

All students in the Bachelor of Music: Performance program must complete the following requirements:

Code	Title	Credits
<b>Music History</b>		
<i>Survey (complete both):</i>		6
MUSIC 211	Survey of the History of Western Music	
MUSIC 212	Survey of the History of Western Music	
<i>Music History Electives (complete 6 credits):</i>		6
MUSIC/ FOLKLORE 402	Musical Cultures of the World	
MUSIC 405	Seminar: Cultural Study of Music	
MUSIC 411	Survey of Music in the Middle Ages	
MUSIC 412	Survey of Music in the Renaissance	
MUSIC 413	Survey of Music in the Baroque Era	
MUSIC 414	Survey of Music in the Classic Era	
MUSIC 415	Survey of Music in the Romantic Era	
MUSIC 416	Survey of Music in the Twentieth Century	
MUSIC 419	Music in the United States	
MUSIC 511	Historical Performance Practices	
MUSIC 513	Survey of Opera	
<b>Core Music Theory (complete all):</b>		<b>12</b>
MUSIC 121 & MUSIC 171	Musica Practica 1 and Musica Practica: Aural Skills 1	
MUSIC 122 & MUSIC 172	Musica Practica 2 and Musica Practica: Aural Skills 2	
MUSIC 221 & MUSIC 271	Musica Practica 3 and Musica Practica: Aural Skills 3	
<b>Conducting/Pedagogy</b>		
MUSIC 252	Introduction to Conducting and Pedagogy	2
<b>Global Music Cultures (complete 3 credits):</b>		<b>3</b>
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	
MUSIC 202	Delta Blues	
MUSIC 203	American Ethnicities and Popular Song	
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion	
MUSIC/ AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	
MUSIC 319	Topics in Music and Ethnicity in the United States	
MUSIC 331	Jazz Improvisation	
MUSIC 332	Jazz Improvisation	

MUSIC/  
FOLKLORE 402

Musical Cultures of the World

MUSIC 405

Seminar: Cultural Study of Music

**Total Credits**

**29**

## ELECTIVES FOR ALL MUSIC PERFORMANCE PROGRAM OPTIONS

The following courses have been approved as electives for all options within the Bachelor of Music: Performance program. The minimum number of Elective credits varies between options, but all options accept the list of courses below toward the minimum credits of Electives required within the option.

Code	Title	Credits
<b>MUSIC and MUS PERF Electives</b>		
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 43	University Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1
MUSIC 56	Chorale	1
MUSIC 58	Madrigal Singers	1
MUSIC 59	University Chorus	1
MUSIC 62	University Symphony Orchestra	1
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	3
MUSIC 107	Music & Film	3
MUSIC 201	Music and Society	2
MUSIC 202	Delta Blues	3
MUSIC 211	Survey of the History of Western Music	3
MUSIC 212	Survey of the History of Western Music	3
MUSIC 222	Musica Practica 4	3
MUSIC 229	Jazz Theory & Composition	3
MUSIC 253	Conducting	2
MUSIC 254	Conducting	2
MUSIC 256	University Opera	1-2
MUSIC 257	Opera Workshop	2
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	1
MUSIC 262	Jazz Ensemble	1
MUSIC 265	Ensemble-Woodwind	1
MUSIC 266	Black Music Ensemble	1
MUSIC 267	Ensemble-Brass	1
MUSIC 268	Ensemble-Percussion	1
MUSIC 269	Ensemble-String	1
MUSIC 270	Ensemble-Guitar	1
MUSIC 272	Musica Practica: Aural Skills 4	1
MUSIC/ CURRIC 300	Principles of Music Education	2

MUSIC/CURRIC 301	Music Learning and Teaching 1	2	MUSIC 541	Seminar in Choral Literature	2
MUSIC/CURRIC 303	Fieldwork in Music Communities	1	MUSIC 546	String Literature	2
MUSIC/CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2	MUSIC 548	Piano Pedagogy II	3
MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity	3	MUSIC 573	Contemporary Chamber Ensemble	1
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	MUSIC 591	Organ Literature and Design	2
MUSIC 319	Topics in Music and Ethnicity in the United States	3	MUSIC 621	Renaissance Polyphony	3
MUSIC 331	Jazz Improvisation	3	MUSIC 622	Baroque Counterpoint	3
MUSIC 332	Jazz Improvisation	3	MUSIC 623	Form and Analysis	2-3
MUSIC/CURRIC 337	Practicum in Teaching Music	1	MUSIC 624	Form and Analysis II	2-3
MUSIC 340	Pedagogy	1-2	MUSIC 629	Jazz Theory and Analysis	3
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1	MUSIC 681	Senior Honors Thesis	3
MUSIC 345	Practicum in String Pedagogy	2	MUSIC 682	Senior Honors Thesis	3
MUSIC 346	Repertoire	1-2	MUS PERF 21	Brass Fundamentals	1
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3	MUS PERF 22	Strings Fundamentals	1
MUSIC 405	Seminar: Cultural Study of Music	3	MUS PERF 23	Woodwind Fundamentals	1
MUSIC/ CURRIC 409	Student Teaching in General and Vocal Music	6-12	MUS PERF 27	Fundamentals- <i>Percussion</i>	1
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	6-12	MUS PERF 101	Beginning Class Piano	2
MUSIC 411	Survey of Music in the Middle Ages	3	MUS PERF 102	Beginning Class Piano	2
MUSIC 412	Survey of Music in the Renaissance	3	MUS PERF 103	Elementary Class Piano	2
MUSIC 413	Survey of Music in the Baroque Era	3	MUS PERF 104	Intermediate Class Piano	2
MUSIC 414	Survey of Music in the Classic Era	3	MUS PERF 108	Jazz Class Piano	2
MUSIC 415	Survey of Music in the Romantic Era	3	MUS PERF 143	Introduction to Performance: Voice	1
MUSIC 416	Survey of Music in the Twentieth Century	3	MUS PERF 144	Vocal Instruction for Non-Voice Majors	1-2
MUSIC 419	Music in the United States	3	MUS PERF 146	Music Lessons for Non-Majors	1-2
MUSIC/CURRIC 420	Teaching Popular Instrumental Music 1	1	MUS PERF 148	First Year Composition	3
MUSIC/CURRIC 421	Teaching Popular Instrumental Music 2	1	MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	2
MUSIC 461	Collegium Musicum	1	MUS PERF 201	Elementary/Intermediate Piano	2-4
MUSIC 463	Acting for Singers	1	MUS PERF 202	Elementary/Intermediate Harpichord	2-4
MUSIC 465	Marching Band Techniques	1	MUS PERF 203	Elementary/Intermediate Organ	2-4
MUSIC 466	Diction for Singers	2	MUS PERF 205	Elementary/Intermediate Voice	2-4
MUSIC 467	Language Diction for Singing I	2	MUS PERF 207	Elementary/Intermediate Flute	2-4
MUSIC 468	Language Diction for Singing II	2	MUS PERF 209	Elementary/Intermediate Oboe	2-4
MUSIC 497	Special Topics in Music	1-3	MUS PERF 211	Elementary/Intermediate Clarinet	2-4
MUSIC 499	Directed Study	1-3	MUS PERF 213	Elementary/Intermediate Saxophone	2-4
MUSIC 502	Figured Bass and Basso Continuo	3	MUS PERF 215	Elementary/Intermediate Bassoon	2-4
MUSIC 511	Historical Performance Practices	3	MUS PERF 217	Elementary/Intermediate Horn	2-4
MUSIC 513	Survey of Opera	3	MUS PERF 219	Elementary/Intermediate Trumpet	2-4
MUSIC/ FOLKLORE 515	Proseminar in Ethnomusicology	3	MUS PERF 221	Elementary/Intermediate Trombone	2-4
MUSIC 523	Orchestration I	3	MUS PERF 223	Elementary/Intermediate Euphonium	2-4
MUSIC 540	Advanced Pedagogy	2	MUS PERF 225	Elementary/Intermediate Tuba	2-4
			MUS PERF 227	Elementary/Intermediate <i>Percussion</i>	2-4
			MUS PERF 231	Elementary/Intermediate Violin	2-4
			MUS PERF 233	Elementary/Intermediate Viola	2-4
			MUS PERF 235	Elementary/Intermediate Cello	2-4
			MUS PERF 237	Elementary/Intermediate Double Bass	2-4
			MUS PERF 239	Elementary/Intermediate Harp	2-4
			MUS PERF 240	Elementary/Intermediate Guitar	2-4

MUS PERF 241	Elementary/Intermediate Jazz Studio Instruction	2-4
MUS PERF 242	Accompanying	2
MUS PERF 248	Second Year Composition	3
MUS PERF 251	Keyboard Skills	2
MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUS PERF 327	Advanced Techniques: Percussion	1-2
MUS PERF 331	Advanced Techniques: Violin	1-2
MUS PERF 333	Advanced Techniques: Viola	1-2
MUS PERF 339	Advanced Techniques: Harp	1-2
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4
MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4
MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 441	Advanced Jazz Studio Instruction	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2

- MUSIC: PERFORMANCE: BRASS, PERCUSSION, WOODWINDS, B.M. (P. 1244)
- MUSIC: PERFORMANCE: COMPOSITION, B.M. (P. 1245)
- MUSIC: PERFORMANCE: GUITAR, B.M. (P. 1246)
- MUSIC: PERFORMANCE: JAZZ, B.M. (P. 1247)
- MUSIC: PERFORMANCE: ORGAN, B.M. (P. 1248)
- MUSIC: PERFORMANCE: PIANO, B.M. (P. 1249)
- MUSIC: PERFORMANCE: STRINGS, B.M. (P. 1250)
- MUSIC: PERFORMANCE: VOICE, B.M. (P. 1251)

## DEGREE PROGRESS

Upon admission as a Music major, all students begin applied study at the 200-level on the major instrument or voice. In the second or third year each student's progress is assessed by the faculty of the relevant performance area. If that assessment indicates that the student is ready, the faculty recommends the student for advanced-level (400-level) study. With a recommendation from the faculty at the end of the second year, and provided the student meets all GPA requirements and completes the first- and second-year courses in music theory and music history, the student may formally declare for the Bachelor of Music: Performance degree.

The minimum GPA requirements that must be met before declaring are as follows:

- Minimum 2.500 GPA in Musica Practica and in music history courses
- Minimum 3.000 GPA in all MUSIC courses
- Minimum 2.750 University GPA (all UW-Madison coursework)

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA in all MUSIC, MUS PERF, and program courses
- Minimum 2.000 GPA on at least 15 credits of upper-level work in the program, in residence
- 15 credits in MUSIC and/or MUSIC PERF, taken on the UW-Madison campus

## UPPER-LEVEL COURSES

The following courses are approved for upper-level credit in all options of the Bachelor of Music: Performance program:

### Music

Code	Title	Credits
MUSIC 40	Wind Ensemble	1
MUSIC 41	Concert Band	1
MUSIC 50	Concert Choir	1
MUSIC 52	Treble Choir	1
MUSIC 53	Choral Union	1
MUSIC 55	Masters' Singers	1

## NAMED OPTIONS

Students must select one of the following named options:

View as listView as grid



MUSIC 56	Chorale	1	MUSIC 412	Survey of Music in the Renaissance	3
MUSIC 58	Madrigal Singers	1	MUSIC 413	Survey of Music in the Baroque Era	3
MUSIC 61	Chamber Orchestra	1	MUSIC 414	Survey of Music in the Classic Era	3
MUSIC 62	University Symphony Orchestra	1	MUSIC 415	Survey of Music in the Romantic Era	3
MUSIC 211	Survey of the History of Western Music	3	MUSIC 416	Survey of Music in the Twentieth Century	3
MUSIC 212	Survey of the History of Western Music	3	MUSIC 419	Music in the United States	3
MUSIC 221	Musica Practica 3	3	MUSIC/CURRIC 420	Teaching Popular Instrumental Music 1	1
MUSIC 222	Musica Practica 4	3	MUSIC/CURRIC 421	Teaching Popular Instrumental Music 2	1
MUSIC 229	Jazz Theory & Composition	3	MUSIC 461	Collegium Musicum	1
MUSIC 252	Introduction to Conducting and Pedagogy	2	MUSIC 463	Acting for Singers	1
MUSIC 253	Conducting	2	MUSIC 465	Marching Band Techniques	1
MUSIC 254	Conducting	2	MUSIC 466	Diction for Singers	2
MUSIC 256	University Opera	1-2	MUSIC 467	Language Diction for Singing I	2
MUSIC 257	Opera Workshop	2	MUSIC 468	Language Diction for Singing II	2
MUSIC 262	Jazz Ensemble	1	MUSIC 497	Special Topics in Music	1-3
MUSIC 265	Ensemble-Woodwind	1	MUSIC 499	Directed Study	1-3
MUSIC 266	Black Music Ensemble	1	MUSIC 502	Figured Bass and Basso Continuo	3
MUSIC 267	Ensemble-Brass	1	MUSIC 511	Historical Performance Practices	3
MUSIC 268	Ensemble-Percussion	1	MUSIC 513	Survey of Opera	3
MUSIC 269	Ensemble-String	1	MUSIC/ FOLKLORE 515	Proseminar in Ethnomusicology	3
MUSIC 270	Ensemble-Guitar	1	MUSIC 523	Orchestration I	3
MUSIC 271	Musica Practica: Aural Skills 3	1	MUSIC 540	Advanced Pedagogy	2
MUSIC 272	Musica Practica: Aural Skills 4	1	MUSIC 541	Seminar in Choral Literature	2
MUSIC/CURRIC 301	Music Learning and Teaching 1	2	MUSIC 546	String Literature	2
MUSIC/CURRIC 303	Fieldwork in Music Communities	1	MUSIC 548	Piano Pedagogy II	3
MUSIC/CURRIC 304	Composition, Arrangement, and Orchestration for the Music Teacher	2	MUSIC 591	Organ Literature and Design	2
MUSIC 317	Musical Women in Europe and America: Creativity, Performance, and Identity	3	MUSIC 621	Renaissance Polyphony	3
MUSIC/AFROAMER/ DANCE 318	Cultural Cross Currents: West African Dance/Music in the Americas	3	MUSIC 622	Baroque Counterpoint	3
MUSIC 319	Topics in Music and Ethnicity in the United States	3	MUSIC 623	Form and Analysis	2-3
MUSIC 331	Jazz Improvisation	3	MUSIC 624	Form and Analysis II	2-3
MUSIC 332	Jazz Improvisation	3	MUSIC 629	Jazz Theory and Analysis	3
MUSIC/CURRIC 337	Practicum in Teaching Music	1	MUSIC 681	Senior Honors Thesis	3
MUSIC 340	Pedagogy	1-2	MUSIC 682	Senior Honors Thesis	3
MUSIC/CURRIC 344	Teaching Vocal Styles in the Music Classroom	1			
MUSIC 345	Practicum in String Pedagogy	2			
MUSIC 346	Repertoire	1-2			
MUSIC/ FOLKLORE 402	Musical Cultures of the World	3			
MUSIC 405	Seminar: Cultural Study of Music	3			
MUSIC/ CURRIC 409	Student Teaching in General and Vocal Music	6-12			
MUSIC/CURRIC 410	Student Teaching in General and Instrumental Music	6-12			
MUSIC 411	Survey of Music in the Middle Ages	3			

### Music Performance

Code	Title	Credits
MUS PERF 311	Advanced Techniques: Clarinet	1-2
MUS PERF 327	Advanced Techniques: Percussion	1-2
MUS PERF 331	Advanced Techniques: Violin	1-2
MUS PERF 333	Advanced Techniques: Viola	1-2
MUS PERF 339	Advanced Techniques: Harp	1-2
MUS PERF 342	Piano Accompanying Lab	1
MUS PERF 347	Third Year Composition	3
MUS PERF 348	Third Year Composition	3
MUS PERF 401	Advanced Piano	2-4
MUS PERF 402	Advanced Harpsichord	2-4
MUS PERF 403	Advanced Organ	2-4
MUS PERF 405	Advanced Voice	2-4
MUS PERF 407	Advanced Flute	2-4

MUS PERF 409	Advanced Oboe	2-4
MUS PERF 411	Advanced Clarinet	2-4
MUS PERF 413	Advanced Saxophone	2-4
MUS PERF 415	Advanced Bassoon	2-4
MUS PERF 417	Advanced Horn	2-4
MUS PERF 419	Advanced Trumpet	2-4
MUS PERF 421	Advanced Trombone	2-4
MUS PERF 423	Advanced Euphonium	2-4
MUS PERF 425	Advanced Tuba	2-4
MUS PERF 427	Advanced Percussion	2-4
MUS PERF 431	Advanced Violin	2-4
MUS PERF 433	Advanced Viola	2-4
MUS PERF 435	Advanced Cello	2-4
MUS PERF 437	Advanced Double Bass	2-4
MUS PERF 439	Advanced Harp	2-4
MUS PERF 440	Advanced Guitar	2-4
MUS PERF 441	Advanced Jazz Studio Instruction	2-4
MUS PERF 447	Fourth Year Composition	3
MUS PERF 448	Fourth Year Composition	3
MUS PERF 457	Jazz Composition and Arranging	3
MUS PERF 458	Jazz Composition and Arranging	3
MUS PERF 499	Senior Recital	2

## HONORS IN THE MAJOR

To earn Honors in any music major, students must satisfy the requirements below as well as all other requirements for their music degree and major:

- 6 credits of MUSIC 681 Senior Honors Thesis–MUSIC 682 Senior Honors Thesis
- 12 credits of honors coursework in music: 6 of the 12 credits must be at the 300 level or higher and only 6 credits can be taken in any one of the three music areas of theory, history, and performance.

To participate in the Honors in the Major program, students must:

- Notify the School of Music undergraduate advisor of their intention to become a candidate for Honors in the Major. This will usually occur in the sophomore year.
- Present a minimum cumulative GPA of 3.300 in all courses taken at UW–Madison and maintain this average throughout the degree.
- Present a minimum 3.500 GPA in all music coursework and maintain a minimum 3.500 GPA in all music honors coursework.
- Engage a faculty member who will collaborate in planning the 12 credits of honors curriculum coursework; submit this plan to the undergraduate advisor. The course plan may change as students progress through their work.
- Prior to beginning work on the MUSIC 681–MUSIC 682 Senior Honors Thesis sequence, confirm a faculty advisor for this sequence (who may be the same person as for the 12 credits above) and submit a prospectus outlining in detail the planned work including (a) the topic, (b) plans for research, and (c) a clear substantive written component, although it may also include oral and/or performance components. The faculty advisor must sign the prospectus indicating approval.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop advanced levels of proficiency in solo, chamber and ensemble performance sufficient to enter music professions or graduate programs.
2. Understand, synthesize and apply foundational concepts of musical study in theory, history and pedagogy.
3. Demonstrate the ability to learn independently and to integrate knowledge across domains of research and applied studies.
4. Communicate verbally, in writing and through public performance, musical ideas and concepts.
5. Demonstrate ability to work collaboratively and professionally in multiple settings.

## FOUR-YEAR PLAN

Please see the Named Options pages for 4-year plan information.

## ADVISING AND CAREERS

### UNDERGRADUATE ADVISING

**Advisor: Todd Reck**

Office: 3561G Humanities Building

Email: [ugradadvisor@music.wisc.edu](mailto:ugradadvisor@music.wisc.edu)

Office phone: (608) 263-1918

**If you wish to schedule an advising appointment, please note the following:**

- Online access to schedule advising appointments is restricted to students who applied to, auditioned for, and have been admitted to the Mead Witter School of Music.
- Students considering applying to the School of Music should contact our undergraduate admissions coordinator, Jared Jellison, at [admissions@music.wisc.edu](mailto:admissions@music.wisc.edu) or (608) 263-5986.

## INDIVIDUAL ACADEMIC ADVISING

Current music majors can schedule an appointment with Todd via Starfish, which can be accessed via your MyUW student portal. If uncertain how to use Starfish, please see <https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>

Appointments can also be made by phone at 608-263-1918.

## BE PREPARED FOR YOUR ADVISING APPOINTMENT

Please bring the following to your appointment:

- Any questions you have about requirements, extracurricular opportunities, study abroad, or whatever is on your mind.
- A pen and paper for note taking.
- Any form you may need signed. Be sure you have filled out all pertinent information and have read the form/document thoroughly.

## WHAT TO EXPECT FROM AN ACADEMIC ADVISING APPOINTMENT

Academic advisors help students learn and understand their degree and major requirements. Programs in the Mead Witter School of Music are highly sequential, and some required courses are offered only once each year. Many of our undergraduates are interested in earning an additional major and/or certificate; with careful planning each semester, this is possible. Advisors often can explain some of the differences between courses that meet the same degree requirement. For students considering study abroad, it's a good idea to begin exploring programs early in your degree and work with your advisor to determine the program length (semester/summer/year) that will best fit your needs and interests.

It is recommended that you see an advisor at least once a semester to plan your courses and check progress toward degree completion. Students sometimes need clarification of degree requirements, particularly if they are considering switching to a different major/degree program within the School of Music.

## GENERAL CONTACT INFORMATION:

Mead Witter School of Music  
3561 Mosse Humanities Building  
455 North Park Street  
Madison, WI 53706-1483  
(608) 263-1900  
[music@music.wisc.edu](mailto:music@music.wisc.edu)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:** *Professors* Cook (director), Calderón, Chisholm, Di Sanza, Dominguez, Fischer, Fulmer, Hetzler, Johnson, Karp, Perry, Rowe, Schwendinger, Taylor, Teeple, Thimmig, Vallon, Wallmann; *Associate Professors* Butler, Farah, Grabois, Nelson, Ronis; *Assistant Professors* Chana, Cornish, Flowers, Laurenz, Lee, Lewis, Rathgeber, Sans, Walsh, Weinstein-Reimann; *Marching Band Director* Pompey; *Teaching Faculty* Brailey, Curry, Gladstone, Gonzalez, Koester, Pompey, Purdue, Rottmayer, Weinholts, Wohn; *Faculty Associate* Rich; *Lecturers* Lee, McCullough, Mok, Patenaude, Tran, Waldo; *Teaching Specialists* Hammes, Ross

The faculty of the Mead Witter School of Music is a distinguished group of educators, performing musicians, and active scholars. The backgrounds of performance faculty include rich experiences as professional musicians, researchers, recording artists, and entrepreneurs. Faculty in music education have particular insight into their field as a result of their backgrounds as school educators, performers, and scholars. In areas such as music theory and musicology, the musical community has high regard for the past and current contributions to the study of musical theory, historical perspectives on music, the role of music in societies around the world, and the unique contributions of American musicians. Teaching is a priority for the faculty, who are readily accessible to students for advice and support. Faculty, staff, and students cooperate in extraordinary ways with joint ventures that reach across disciplines both in research or instruction.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Music (<https://nasm.arts-accredit.org>)

Accreditation status: Accredited. Next accreditation review: 2022-2023.

# MUSIC: PERFORMANCE: BRASS, PERCUSSION, WOODWINDS, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE BRASS, PERCUSSION, & WOODWINDS OPTION

Students in the Brass, Percussion, & Woodwinds option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits in one of the following courses):</i>		12
MUS PERF 207	Elementary/Intermediate Flute	
MUS PERF 209	Elementary/Intermediate Oboe	
MUS PERF 211	Elementary/Intermediate Clarinet	
MUS PERF 213	Elementary/Intermediate Saxophone	
MUS PERF 215	Elementary/Intermediate Bassoon	
MUS PERF 217	Elementary/Intermediate Horn	
MUS PERF 219	Elementary/Intermediate Trumpet	
MUS PERF 221	Elementary/Intermediate Trombone	
MUS PERF 223	Elementary/Intermediate Euphonium	
MUS PERF 225	Elementary/Intermediate Tuba	
MUS PERF 227	Elementary/Intermediate Percussion	
<i>Advanced (complete 14 credits in one of the following courses):</i>		14
MUS PERF 407	Advanced Flute	
MUS PERF 409	Advanced Oboe	
MUS PERF 411	Advanced Clarinet	
MUS PERF 413	Advanced Saxophone	
MUS PERF 415	Advanced Bassoon	
MUS PERF 417	Advanced Horn	
MUS PERF 419	Advanced Trumpet	
MUS PERF 421	Advanced Trombone	
MUS PERF 423	Advanced Euphonium	
MUS PERF 425	Advanced Tuba	
MUS PERF 427	Advanced Percussion	
<i>Senior Recital</i>		2
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>4</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<b>Keyboard Skills (complete 4 credits):</b>		<b>4</b>

All students must pass Mus Perf 104 keyboard proficiency. Extra credits earned in reaching proficiency will count as music electives.

MUS PERF 103	Elementary Class Piano	
MUS PERF 104	Intermediate Class Piano	
<b>Large Performance Ensemble (complete 8 credits):</b>		<b>8</b>
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 62	University Symphony Orchestra	
<b>Ensemble (complete 4 credits):</b>		<b>4</b>
MUSIC 265	Ensemble-Woodwind	
MUSIC 267	Ensemble-Brass	
MUSIC 268	Ensemble-Percussion	
MUSIC 269	Ensemble-String	
MUSIC 461	Collegium Musicum	
<b>Electives</b>		<b>13</b>
Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.		
<b>Total Credits</b>		<b>61</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Elementary/Intermediate Applied Study Course	2	Elementary/Intermediate Applied Study Course	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
MUS PERF 103	2	MUS PERF 104	2
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1
Foreign Language	4	Foreign Language	4
Communication A	3	Quantitative Reasoning A	3
<b>16</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
Elementary/Intermediate Applied Study Course	4	Elementary/Intermediate Applied Study Course	4
MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1

Quantitative Reasoning B	3	Ethnic Studies	3
		<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Advanced Applied Study Course	4	Advanced Applied Study Course	4
Music History Elective	3	Music History Elective	3
MUSIC 40, 41, or 62	1	MUSIC 40, 41, or 62	1
MUSIC 265, 267, 268, or 269	1	MUSIC 265, 267, 268, or 269	1
Music Electives	3	MUSIC 252	2
Social Science Breadth	3	Music Electives	4
		<b>15</b>	<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Advanced Applied Study Course	4	Advanced Applied Study Course	2
MUSIC 40, 41, or 62	1	MUS PERF 499	2
MUSIC 265, 267, 268, or 269	1	MUSIC 40, 41, or 62	1
Music Electives	3	MUSIC 265, 267, 268, or 269	1
Natural Science Breadth with Lab	4	Global Music Cultures	3
Communication B	3	Music Electives	3
		<b>16</b>	<b>12</b>

**Total Credits 120**

# MUSIC: PERFORMANCE: COMPOSITION, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE COMPOSITION OPTION

Students in the Composition option must complete the following:

Code	Title	Credits
<b>Applied Study (complete all):</b>		<b>21</b>
MUS PERF 148	First Year Composition	
MUS PERF 247	Second Year Composition	
MUS PERF 248	Second Year Composition	
MUS PERF 347	Third Year Composition	
MUS PERF 348	Third Year Composition	
MUS PERF 447	Fourth Year Composition	
MUS PERF 448	Fourth Year Composition	
<b>Advanced Music Theory</b>		<b>10</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
MUSIC 621	Renaissance Polyphony	

MUSIC 622	Baroque Counterpoint
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**Keyboard Skills 2**

One semester of the listed course is required. Extra credits earned in reaching proficiency will count as music electives.

MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors
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**Large Performance Ensemble (complete 4 credits): 4**

MUSIC 40	Wind Ensemble
MUSIC 41	Concert Band
MUSIC 52	Treble Choir
MUSIC 53	Choral Union
MUSIC 55	Masters' Singers
MUSIC 56	Chorale
MUSIC 58	Madrigal Singers
MUSIC 59	University Chorus
MUSIC 60	All-University String Orchestra
MUSIC 61	Chamber Orchestra
MUSIC 62	University Symphony Orchestra

**Orchestration 3**

MUSIC 523	Orchestration I
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**Composition Electives (complete 9 credits from the following): 9**

MUSIC 253	Conducting
MUSIC 254	Conducting
MUSIC 573	Contemporary Chamber Ensemble
MUSIC 331	Jazz Improvisation
MUSIC 332	Jazz Improvisation
MUSIC/ FOLKLORE 402	Musical Cultures of the World
MUSIC 405	Seminar: Cultural Study of Music
MUSIC 623	Form and Analysis
MUSIC 624	Form and Analysis II
MUS PERF 457	Jazz Composition and Arranging
MUS PERF 458	Jazz Composition and Arranging

**Electives 12**

Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.

**Total Credits 61**

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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**First Year**

Fall	Credits	Spring	Credits
MUSIC 121		3 MUS PERF 148	3
MUSIC 171		1 MUSIC 122	3
Large Performance Ensemble		1 MUSIC 172	1
Music Electives		4 Large Performance Ensemble	1
Foreign Language		4 Music Electives	2
Communication A		3 Foreign Language	4
		Quantitative Reasoning A	3
		<b>16</b>	<b>17</b>

**Second Year**

Fall	Credits	Spring	Credits
MUS PERF 247		3 MUS PERF 248	3
MUSIC 221		3 MUSIC 222	3
MUSIC 271		1 MUSIC 272	1
MUSIC 211		3 MUSIC 212	3
MUS PERF 200		2 MUSIC 621	3
Large Performance Ensemble		1 Large Performance Ensemble	1
Ethnic Studies		3	
		<b>16</b>	<b>14</b>

**Third Year**

Fall	Credits	Spring	Credits
MUS PERF 347		3 MUS PERF 348	3
MUSIC 622		3 MUSIC 252	2
Music History Elective		3 Music History Elective	3
MUSIC 523		3 Composition Electives	3
Music Electives		2 Quantitative Reasoning B	3
		<b>14</b>	<b>14</b>

**Fourth Year**

Fall	Credits	Spring	Credits
MUS PERF 447		3 Global Music Cultures	3
Composition Electives		3 Composition Electives	3
Music Electives		1 Music Electives	6
Natural Science Breadth with Lab		4 Social Science Breadth	3
Communication B		3	
		<b>14</b>	<b>15</b>

**Total Credits 120**

# MUSIC: PERFORMANCE: GUITAR, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE GUITAR OPTION

Students in the Guitar option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits):</i>		<b>12</b>
MUS PERF 240	Elementary/Intermediate Guitar	
<i>Advanced (complete 14 credits):</i>		<b>14</b>
MUS PERF 440	Advanced Guitar	
<i>Senior Recital</i>		<b>2</b>
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>4</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<b>Keyboard Skills</b>		<b>4</b>
All students must pass Mus Perf 104 keyboard proficiency. Extra credits earned in reaching proficiency will count as music electives.		
MUS PERF 103	Elementary Class Piano	
MUS PERF 104	Intermediate Class Piano	
<b>Large Performance Ensemble (complete 4 credits from the list below):</b>		<b>4</b>
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 42	Varsity Band	
MUSIC 43	University Band	
MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 53	Choral Union	
MUSIC 55	Masters' Singers	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 59	University Chorus	
MUSIC 60	All-University String Orchestra	
MUSIC 62	University Symphony Orchestra	
<b>Ensemble (complete 8 credits):</b>		<b>8</b>
MUSIC 270	Ensemble-Guitar	
<b>Pedagogy (complete 2 credits):</b>		<b>2</b>
MUSIC 340	Pedagogy	
<b>Repertoire (complete 2 credits):</b>		<b>2</b>
MUSIC 346	Repertoire	
<b>Foreign Language</b>		<b>8</b>
Complete two units of Spanish		
<b>Electives</b>		<b>9</b>

Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.

**Total Credits** **69**

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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#### First Year

Fall	Credits	Spring	Credits
MUS PERF 240	2	MUS PERF 240	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
MUS PERF 103	2	MUS PERF 104	2
MUSIC 270	1	MUSIC 270	1
Spanish Language Course	4	Quantitative Reasoning A	3
Communication A	3	Spanish Language Course	4
<b>16</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
MUS PERF 240	4	MUS PERF 240	4
MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
MUSIC 270	1	MUSIC 270	1
Ethnic Studies	3	Large Performance Ensemble	1
<b>15</b>		<b>13</b>	

#### Third Year

Fall	Credits	Spring	Credits
MUS PERF 440	4	MUS PERF 440	4
Music History Elective	3	Music History Elective	3
MUSIC 270	1	MUSIC 270	1
Large Performance Ensemble	1	MUSIC 252	2
MUSIC 340	2	Music Electives	3
Natural Science Breadth with Lab	4	Quantitative Reasoning B	3
<b>15</b>		<b>16</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
MUS PERF 440	4	MUS PERF 440	2
MUSIC 270	1	MUS PERF 499	2
MUSIC 346	2	MUSIC 270	1
Large Performance Ensemble	1	Large Performance Ensemble	1
Music Electives	3	Global Music Cultures	3
Communication B	3	Music Electives	3
		Social Science Breadth	3
<b>14</b>		<b>15</b>	

**Total Credits 120**

## MUSIC: PERFORMANCE: JAZZ, B.M.

### REQUIREMENTS

### REQUIREMENTS FOR THE JAZZ OPTION

Students in the Jazz option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits):</i>		<b>12</b>
MUS PERF 241	Elementary/Intermediate Jazz Studio Instruction	
<i>Advanced (complete 14 credits):</i>		<b>14</b>
MUS PERF 441	Advanced Jazz Studio Instruction	
<i>Senior Recital</i>		<b>2</b>
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>6</b>
MUSIC 229	Jazz Theory & Composition	
MUS PERF 458	Jazz Composition and Arranging	
<b>Keyboard Skills (MUS PERF 108 required; additional credits earned in reaching proficiency will count as music electives):</b>		<b>2</b>
MUS PERF 108	Jazz Class Piano	
<b>Large Performance Ensemble (complete 2 credits from the courses listed below):</b>		<b>2</b>
MUSIC 40	Wind Ensemble	
MUSIC 41	Concert Band	
MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 53	Choral Union	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 62	University Symphony Orchestra	
<b>Ensemble (complete 8 credits):</b>		<b>8</b>
MUSIC 262	Jazz Ensemble	
MUSIC 266	Black Music Ensemble	

<b>Improvisation (complete 6 credits):</b>	<b>6</b>
MUSIC 331 Jazz Improvisation	
MUSIC 332 Jazz Improvisation	
<b>Electives</b>	<b>9</b>
Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.	
<b>Total Credits</b>	<b>61</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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#### First Year

Fall	Credits	Spring	Credits
MUS PERF 241		2 MUS PERF 241	2
MUSIC 121		3 MUSIC 122	3
MUSIC 171		1 MUSIC 172	1
MUSIC 262 or 266		1 MUSIC 262 or 266	1
Foreign Language		4 Foreign Language	4
Communication A		3 Quantitative Reasoning A	3
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
MUS PERF 241		4 MUS PERF 241	4
MUSIC 221		3 MUSIC 229	3
MUSIC 271		1 MUSIC 212	3
MUSIC 211		3 MUSIC 262 or 266	1
MUSIC 262 or 266		1 MUS PERF 103	2
Ethnic Studies		3 Quantitative Reasoning B	3
	<b>15</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
MUS PERF 441		4 MUS PERF 441	4
MUS PERF 458		3 Music History Elective	3
Music History Elective		3 MUSIC 262 or 266	1
MUS PERF 108		2 MUSIC 252	2
MUSIC 262 or 266		1 Global Music Cultures	3
Natural Science Breadth with Lab		4 Social Science Breadth	3
	<b>17</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
MUS PERF 441		4 MUS PERF 441	2
MUSIC 262 or 266		1 MUS PERF 499	2
MUSIC 331		3 MUSIC 262 or 266	1
Large Performance Ensemble		1 MUSIC 332	3
Music Electives		4 Large Performance Ensemble	1
Communication B		3 Music Electives	3
	<b>16</b>		<b>12</b>

**Total Credits 120**

## MUSIC: PERFORMANCE: ORGAN, B.M.

### REQUIREMENTS

### REQUIREMENTS FOR THE ORGAN OPTION

Students in the Organ option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits):</i>		<b>12</b>
MUS PERF 203	Elementary/Intermediate Organ	
<i>Advanced (complete 14 credits):</i>		<b>14</b>
MUS PERF 403	Advanced Organ	
<i>Senior Recital</i>		<b>2</b>
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>7</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
MUSIC 621 or MUSIC 622	Renaissance Polyphony or Baroque Counterpoint	
<b>Keyboard Skills (complete both courses):</b>		<b>4</b>
MUS PERF 251	Keyboard Skills	
MUS PERF 242	Accompanying	
<b>Large Performance Ensemble (complete 6 credits):</b>		<b>6</b>
MUS PERF 342	Piano Accompanying Lab	
MUSIC 50	Concert Choir	
MUSIC 52	Treble Choir	
MUSIC 53	Choral Union	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	
MUSIC 60	All-University String Orchestra	
MUSIC 61	Chamber Orchestra	
MUSIC 62	University Symphony Orchestra	
<b>Electives</b>		<b>16</b>



Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.

**Total Credits 61**

## FOUR-YEAR PLAN

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#### First Year

Fall	Credits	Spring	Credits
MUS PERF 203	2	MUS PERF 203	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
MUS PERF 251	2	MUS PERF 242	2
Foreign Language	4	Foreign Language	4
Communication A	3	Quantitative Reasoning A	3
<b>15</b>		<b>15</b>	

#### Second Year

Fall	Credits	Spring	Credits
MUS PERF 203	4	MUS PERF 203	4
MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
Large Performance Ensemble	1	Large Performance Ensemble	1
Ethnic Studies	3	Quantitative Reasoning B	3
<b>15</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
MUS PERF 403	4	MUS PERF 403	4
Music History Elective	3	Music History Elective	3
Large Performance Ensemble	1	Large Performance Ensemble	1
MUSIC 622	3	MUSIC 252	2
Natural Science Breadth with Lab	4	Global Music Cultures	3
		Social Science Breadth	3
<b>15</b>		<b>16</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
MUS PERF 403	4	MUS PERF 403	2

Large Performance Ensemble	1 MUS PERF 499	2
Music Electives	6 Large Performance Ensemble	1
Communication B	3 Music Electives	10
<b>14</b>		<b>15</b>

**Total Credits 120**

## MUSIC: PERFORMANCE: PIANO, B.M.

### REQUIREMENTS

### REQUIREMENTS FOR THE PIANO OPTION

Students in the Piano option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits):</i>		12
MUS PERF 201	Elementary/Intermediate Piano	
<i>Advanced (complete 14 credits):</i>		14
MUS PERF 401	Advanced Piano	
<i>Senior Recital</i>		2
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>4</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<b>Keyboard Skills (complete both):</b>		<b>4</b>
MUS PERF 251	Keyboard Skills	
MUS PERF 242	Accompanying	
<b>Large Performance Ensemble (complete 6 credits):</b>		<b>6</b>
MUS PERF 342	Piano Accompanying Lab	
<b>Pedagogy</b>		<b>2</b>
MUSIC 340	Pedagogy	
<b>Repertoire (complete 4 credits):</b>		<b>4</b>
MUSIC 346	Repertoire	
<b>Electives</b>		<b>13</b>

Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.

**Total Credits 61**

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

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examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
MUS PERF 201		2 MUS PERF 201	2
MUS PERF 251		2 MUS PERF 242	2
MUSIC 121		3 MUSIC 122	3
MUSIC 171		1 MUSIC 172	1
Foreign Language		4 Foreign Language	4
Communication A		3 Quantitative Reasoning A	3
		<b>15</b>	<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
MUS PERF 201		4 MUS PERF 201	4
MUSIC 221		3 MUSIC 222	3
MUSIC 271		1 MUSIC 272	1
MUSIC 211		3 MUSIC 212	3
MUS PERF 342		1 MUS PERF 342	1
Ethnic Studies		3 Quantitative Reasoning B	3
		<b>15</b>	<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
MUS PERF 401		4 MUS PERF 401	4
Music History Elective		3 Music History Elective	3
MUS PERF 342		1 MUS PERF 342	1
MUSIC 340		2 MUSIC 252	2
Natural Science Breadth with Lab		4 Global Music Cultures	3
		Social Science Breadth	3
		<b>14</b>	<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
MUS PERF 401		4 MUS PERF 401	2
MUS PERF 342		1 MUS PERF 499	2
MUSIC 346		2 MUS PERF 342	1
Music Electives		5 MUSIC 346	2
Communication B		3 Music Electives	8
		<b>15</b>	<b>15</b>

**Total Credits 120**

# MUSIC: PERFORMANCE: STRINGS, B.M.

## REQUIREMENTS

### REQUIREMENTS FOR THE STRINGS OPTION

Students in the Strings option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits from one of the following courses):</i>		<b>12</b>
MUS PERF 231	Elementary/Intermediate Violin	
MUS PERF 233	Elementary/Intermediate Viola	
MUS PERF 235	Elementary/Intermediate Cello	
MUS PERF 237	Elementary/Intermediate Double Bass	
MUS PERF 239	Elementary/Intermediate Harp	
<i>Advanced (complete 14 credits)</i>		<b>14</b>
MUS PERF 431	Advanced Violin	
MUS PERF 433	Advanced Viola	
MUS PERF 435	Advanced Cello	
MUS PERF 437	Advanced Double Bass	
MUS PERF 439	Advanced Harp	
<i>Senior Recital</i>		<b>2</b>
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>4</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<b>Keyboard Skills (complete 4 credits):</b>		<b>4</b>
All students must pass Mus Perf 104 keyboard proficiency. Extra credits earned in reaching proficiency will count as music electives.		
MUS PERF 103	Elementary Class Piano	
MUS PERF 104	Intermediate Class Piano	
<b>Large Performance Ensemble (complete 8 credits):</b>		<b>8</b>
MUSIC 62	University Symphony Orchestra	
<b>String Ensemble (complete 4 credits):</b>		<b>4</b>
MUSIC 269	Ensemble-String	
<b>Ensemble</b>		<b>4</b>
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	
MUSIC 262	Jazz Ensemble	
MUSIC 265	Ensemble-Woodwind	
MUSIC 267	Ensemble-Brass	
MUSIC 269	Ensemble-String	
MUSIC 266	Black Music Ensemble	
MUSIC 268	Ensemble-Percussion	
MUSIC 461	Collegium Musicum	

<b>Pedagogy</b>	<b>2</b>
MUSIC 340 Pedagogy	
<b>Repertoire</b>	<b>2</b>
MUSIC 346 Repertoire	
<b>Electives</b>	<b>5</b>
Elective credit is earned from courses on the list of electives approved for all options of the Bachelor of Music: Performance program. This list is published in the Requirements section for the program.	
<b>Total Credits</b>	<b>61</b>

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Elementary/Intermediate Applied Study Course	2	Elementary/Intermediate Applied Study Course	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
MUSIC 62	1	MUSIC 62	1
MUSIC 269	1	MUSIC 269	1
Foreign Language	4	Foreign Language	4
Communication A	3	Quantitative Reasoning A	3
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Elementary/Intermediate Applied Study Course	4	Elementary/Intermediate Applied Study Course	4
MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
MUSIC 62	1	MUSIC 62	1
MUSIC 269	1	MUSIC 269	1
Ethnic Studies	3	MUS PERF 103	2
	<b>16</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Advanced Applied Study Course	4	Advanced Applied Study Course	4
Music History Elective	3	Music History Elective	3
MUSIC 62	1	MUSIC 62	1
Ensemble	1	Ensemble	1
MUSIC 340	2	MUSIC 252	2

MUS PERF 104	2	MUSIC 346	2
Global Music Cultures	3	Quantitative Reasoning B	3
	<b>16</b>		<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Advanced Applied Study Course	4	Advanced Applied Study Course	2
MUSIC 62	1	MUS PERF 499	2
Ensemble	1	MUSIC 62	1
Music Electives	2	Ensemble	1
Natural Science Breadth with Lab	4	Music Electives	3
Communication B	3	Social Science Breadth	3
	<b>15</b>		<b>12</b>

**Total Credits 120**

## MUSIC: PERFORMANCE: VOICE, B.M.

### REQUIREMENTS

### REQUIREMENTS FOR THE VOICE OPTION

Students in the Voice option must complete the following:

Code	Title	Credits
<b>Applied Study</b>		
<i>Elementary/Intermediate (complete 12 credits):</i>		12
MUS PERF 205	Elementary/Intermediate Voice	
<i>Advanced (complete 14 credits):</i>		14
MUS PERF 405	Advanced Voice	
<i>Senior Recital</i>		2
MUS PERF 499	Senior Recital	
<b>Advanced Music Theory</b>		<b>4</b>
MUSIC 222 & MUSIC 272	Musica Practica 4 and Musica Practica: Aural Skills 4	
<b>Keyboard Skills</b>		
<i>Complete 4 credits of the following:</i>		4
MUS PERF 103 & MUS PERF 104	Elementary Class Piano and Intermediate Class Piano	
<i>or</i>		
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	
<i>Complete at least 2 credits of the following:</i>		2
MUS PERF 200	Elementary/Intermediate Piano for Non-Piano Majors	
<b>Large Performance Ensemble (complete 4 credits):</b>		<b>4</b>
MUSIC 50	Concert Choir	
MUSIC 56	Chorale	
MUSIC 58	Madrigal Singers	

<b>Additional Ensemble (complete 4 credits):</b>	<b>4</b>
MUSIC 50 Concert Choir	
MUSIC 56 Chorale	
MUSIC 58 Madrigal Singers	
MUSIC 256 University Opera	
MUSIC 257 Opera Workshop	
<b>Repertoire (complete 2 credits):</b>	<b>2</b>
MUSIC 346 Repertoire	
<b>Language Diction (complete 4 credits):</b>	<b>4</b>
MUSIC 467 Language Diction for Singing I	
MUSIC 468 Language Diction for Singing II	
<b>Foreign Language</b>	<b>17</b>
Complete the first unit in French, German, and Italian <sup>1</sup>	
FRENCH 101 First Semester French	
GERMAN 101 First Semester German	
ITALIAN 101 First Semester Italian	
Complete the second unit in TWO of these languages (French, German, Italian) <sup>1</sup>	
FRENCH 102 Second Semester French	
GERMAN 102 Second Semester German	
ITALIAN 102 Second Semester Italian	
<b>Total Credits</b>	<b>69</b>

**FOOTNOTES**

1 High school units can also meet this requirement.

**FOUR-YEAR PLAN**

**SAMPLE FOUR-YEAR PLAN**

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

<b>First Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MUS PERF 205	2	MUS PERF 205	2
MUSIC 121	3	MUSIC 122	3
MUSIC 171	1	MUSIC 172	1
MUS PERF 103	2	MUS PERF 104	2
MUSIC 50, 56, or 58	1	MUSIC 50, 56, or 58	1
First Foreign Language	4	Foreign Language	4
Communication A	3	Quantitative Reasoning A	3
		<b>16</b>	<b>16</b>
<b>Second Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MUS PERF 205	4	MUS PERF 205	4

MUSIC 221	3	MUSIC 222	3
MUSIC 271	1	MUSIC 272	1
MUSIC 211	3	MUSIC 212	3
MUSIC 50, 56, or 58	1	MUSIC 50, 56, or 58	1
MUS PERF 200	2	Ethnic Studies	3
Foreign Language	4		
		<b>18</b>	<b>15</b>

<b>Third Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MUS PERF 405	4	MUS PERF 405	4
Music History Elective	3	Music History Elective	3
Ensemble	1	Ensemble	1
MUSIC 467	2	MUSIC 468	2
MUSIC 346	2	Second Foreign Language	4
Natural Science Breadth with Lab	4		
		<b>16</b>	<b>14</b>

<b>Fourth Year</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MUS PERF 405	4	MUS PERF 405	2
Ensemble	1	MUS PERF 499	2
Global Music Cultures	3	Ensemble	1
Third Foreign Language	4	MUSIC 252	2
Quantitative Reasoning B	3	Social Science Breadth	3
		Communication B	3
		<b>15</b>	<b>13</b>

**Total Credits 123**

**MOSSE/WEINSTEIN CENTER FOR JEWISH STUDIES**

Founded in 1991, the Mosse/Weinstein Center for Jewish Studies brings together a variety of disciplines to study and interpret Jewish and ancient Israelite history, religion, literature, politics, society, and culture. The center offers a broad selection of courses at all levels, which are cross-listed with other departments, including Classical and Near Eastern Studies, English, Gender and Women's Studies, German/Nordic/Slavic Studies, History, Music, Philosophy, Political Science, Religious Studies, and Sociology.

The Jewish Studies major offers students an in-depth study of 3,500 years of Jewish civilization. The program is interdisciplinary in nature and aims to provide students with a broadly based, rigorous liberal arts education in the field. While learning about Jewish history, religion, language, and culture, students also develop skills in critical thinking, reading, writing, and research—skills that are valuable to a range of career paths.

## DEGREES/MAJORS/CERTIFICATES

- Jewish Studies, B.A. (p. 1253)
- Jewish Studies, B.S. (p. 1258)
- Jewish Studies, Certificate (p. 1263)

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## JEWISH STUDIES, B.A.

From history to political science, sociology to music and the arts, Jewish Studies is a vibrant, interdisciplinary program that allows you to explore Jewish civilization from a variety of perspectives. We encourage all students to consider a Jewish Studies major (<https://cjs.wisc.edu/major-in-jewish-studies/>) or certificate (<https://cjs.wisc.edu/certificate-in-jewish-studies/>), regardless of your background or previous study.

As a student in Jewish Studies, you will study the intellectual and cultural values of Jews, their religious beliefs and practices, languages, literary creativity, and participation in the larger societies in which they live. You will sharpen your ability to think critically, read closely, and write effectively. And while learning how Jews have lived, survived, and sometimes flourished, you will gain a deeper comprehension of their rich, varied culture and the world they inhabit.

Since Jewish Studies is an interdisciplinary field, many students simultaneously pursue majors or certificates in other departments, including Art, Education, Geography, History, Music, Political Science, Religious Studies, and Sociology. Given the broad history and geography of the Jewish experience, Jewish Studies also pairs well with programs like African Studies, Classical and Near Eastern Studies, European Studies,

German/Nordic/Slavic Studies, and Middle Eastern Studies. For the same reason, many of Jewish Studies courses fulfill General Education requirements, including Humanities and Literature, Ethnic Studies, Foreign Language, and Communications Part B. To sample the variety of Jewish Studies offerings, check out our current and recent courses (<https://cjs.wisc.edu/courses/>).

Building on a strong foundation in the humanities and social sciences, you may go on to pursue a variety of career paths, such as education, library and information sciences, finance and international trade, journalism and mass media, social work, and the nonprofit sector. Our graduates are also well prepared to apply for law school, graduate school, or rabbinical studies.

Questions? Contact the undergraduate advisor (<https://cjs.wisc.edu/advising/>).

## HOW TO GET IN

### ENROLLMENT GUIDANCE

Students with prior language study or experience as a speaker of Modern Hebrew should contact the Undergraduate Advisor in the Mosse/Weinstein Center for Jewish Studies for enrollment guidance.

### DECLARING THE MAJOR

Prospective majors in Jewish Studies should make an appointment with the undergraduate advisor ([undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu)) to discuss requirements and courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

<b>Foreign Language</b>	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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<b>L&amp;S Breadth</b>	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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<b>Liberal Arts and Science Coursework</b>	Complete at least 108 credits.
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<b>Depth of Intermediate/Advanced work</b>	Complete at least 60 credits at the intermediate or advanced level.
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<b>Major</b>	Declare and complete at least one major.
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<b>Total Credits</b>	Complete at least 120 credits.
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<b>UW-Madison Experience</b>	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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<b>Quality of Work</b>	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The Jewish Studies major requires 10 courses, totaling at least 29 credits, in 5 areas: 1) one Gateway Course; 2) two courses in Literature, Philosophy, and the Arts; 3) two courses in History and Social Science; 4) four courses in Modern Hebrew; and 5) the Core Seminar. Each course may count toward only one required area.

## GATEWAY COURSE

Complete one Gateway Course.

Code	Title	Credits
<b>Gateway Course (complete one):</b>		
JEWISH/ LEGAL ST/ RELIG ST 203	Jewish Law, Business, and Ethics	
JEWISH/ RELIG ST 211	Introduction to Judaism	

## LITERATURE, PHILOSOPHY, AND THE ARTS

Complete two courses in Literature, Philosophy, and the Arts, at least one of which must fulfill the Jewish Diaspora requirement,

Code	Title	Credits
<b>Jewish Diaspora (complete at least one course):</b>		
JEWISH/ GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH/ GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	
JEWISH/ LITTRANS 318	Modern Jewish Literature	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
JEWISH/ ENGL 370	Jewish Humor	
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century	
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	
JEWISH/ ENGL 593	Literature of Jewish Identity in America	

**Complete any additional Diaspora course from the list above, or any of the following:**

JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
JEWISH 230	Elementary Topics in Jewish Literature	
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	
JEWISH 236	Bascom Course	
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	
JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature	
JEWISH/ LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	

JEWISH/ CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
JEWISH/ CLASSICS/ RELIG ST 335	King David in History and Tradition	
JEWISH/ CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II	
JEWISH 430	Intermediate Topics in Jewish Literature	
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts	
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust	
JEWISH/HEBR- BIB 513	Biblical Texts, Poetry	
JEWISH/HEBR- BIB 514	Biblical Texts, Poetry	
JEWISH 630	Advanced Topics in Jewish Literature	
JEWISH 632	Advanced Topics in Jewish Philosophy and the Arts	

## HISTORY AND SOCIAL SCIENCE

Complete two courses in History and Social Science, at least one of which must fulfill the Jews in America requirement.

Code	Title	Credits
<b>Jews in America (complete at least one course):</b>		
JEWISH/ HISTORY 213	Jews and American Pop. Culture	
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
<b>Complete any additional Jews in America course from the list above, or any of the following:</b>		
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	
JEWISH 231	Elementary Topics in Jewish History	
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	

JEWISH/ HISTORY 310	The Holocaust
JEWISH/ILS/ SOC 423	Modern Jewish Thought
JEWISH 431	Intermediate Topics in Jewish History
JEWISH 433	Intermediate Topics in Jewish Studies: Social Sciences
JEWISH/ CLASSICS 451	Biblical Archaeology
JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945
JEWISH 631	Advanced Topics in Jewish History

## MODERN HEBREW

Complete four courses in Modern Hebrew at appropriate level.

Code	Title	Credits
HEBR-MOD 101	First Semester Hebrew	
HEBR-MOD 102	Second Semester Hebrew	
HEBR-MOD 201	Third Semester Hebrew	
HEBR-MOD 202	Fourth Semester Hebrew	
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	

## CORE SEMINAR

Complete the Core Seminar.

Code	Title	Credits
JEWISH 350	What Is Jewish Studies?	

## NOTE ON DIRECTED STUDY

With prior consent of the undergraduate advisor in Jewish studies and the relevant instructor, students may use one Directed Study course (JEWISH 699) to satisfy a requirement for the major.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all JEWISH courses and all courses accepted in the major
- 2.000 GPA on 15 upper-level major credits, taken in residence. Upper-level work includes all Intermediate or Advanced level courses in the Jewish Studies major.
- 15 credits in JEWISH, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Jewish Studies undergraduate advisor.

## HONORS IN THE JEWISH STUDIES MAJOR: REQUIREMENTS

To earn Honors in the Major students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all JEWISH courses, and all courses accepted in the major
- Complete at least two courses, taken for Honors, in the major, with grades of B or better in each
- Complete a two-semester Senior Honors Thesis, a piece of original research composition, in JEWISH 681 and JEWISH 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Proficiency in reading, writing, understanding, and conversing in Hebrew or another approved Jewish language, attained through four semesters of study
2. Ability to read Jewish texts closely and to write original, coherent, and compelling arguments that push beyond summary to analysis
3. Knowledge of Jewish civilization, culture, and society in both the past and the present
4. Development, pursuit, and presentation of original research in Jewish studies culminating in a substantive academic paper that utilizes and cites appropriate sources
5. Appreciation for diverse worldviews and value systems, including an understanding of interactions between Jews and non-Jews within the context of minority-majority relationships in Wisconsin, in the United States, and across the globe

## FOUR-YEAR PLAN

## SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner,



and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
HEBR-MOD 101		4 HEBR-MOD 102	4
JEWISH/LEGAL ST/ RELIG ST 203 or 211	3	Quantitative Reasoning B	3
Communication A	3	Communications B	3
Quantitative Reasoning A	3	Science Breadth	3
Elective (Elementary level)	3	Elective (Elementary level)	3
<b>16</b>		<b>16</b>	

### Second Year

Fall	Credits	Spring	Credits
HEBR-MOD 201		4 HEBR-MOD 202	4
JEWISH/HISTORY 219 (meets Ethnic Studies; Jews in America [History/Social Science])	4	Biological Science Breadth	3
Physical Science Breadth	3-4	JEWISH/PHILOS 442 (meets Literature/ Philosophy/Arts)	3
Elective (Intermediate level)	3	Electives (Intermediate level)	6
<b>14</b>		<b>16</b>	

### Third Year

Fall	Credits	Spring	Credits
JEWISH/HISTORY 310 (meets History/Social Science)	4	JEWISH 350	3
Science Breadth	3	JEWISH 416 (meets Literature/Philosophy/ Arts)	3
Social Science Breadth (if needed)	3	Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3
Electives (Intermediate or Advanced level)	6	Social Science Breadth (if needed)	3
		Elective (Intermediate or Advanced level)	3
<b>16</b>		<b>15</b>	

### Fourth Year

Fall	Credits	Spring	Credits
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Electives (Intermediate or Advanced level)	12
Electives (Intermediate or Advanced level)	12		
<b>15</b>		<b>12</b>	

**Total Credits 120**

## ADVISING AND CAREERS

Like other liberal arts majors, a degree in Jewish Studies can prepare one for a variety of career paths. Graduates in Jewish Studies have followed a variety of different career paths, including law, medicine, education, finance, social work, and the nonprofit sector. Jewish Studies students are also well prepared to apply for graduate studies in fields such as law, education, business, and social work, as well as prime candidates for rabbinical or cantorial school, theological studies, and advanced levels of Jewish Studies. For more information, please reach out to academic advising (<https://cjs.wisc.edu/advising/>).

The Mosse/Weinstein Center for Jewish Studies encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
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## PEOPLE

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## JEWISH STUDIES, B.S.

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As a student in Jewish Studies, you will study the intellectual and cultural values of Jews, their religious beliefs and practices, languages, literary creativity, and participation in the larger societies in which they live. You will sharpen your ability to think critically, read closely, and write effectively. And while learning how Jews have lived, survived, and sometimes flourished, you will gain a deeper comprehension of their rich, varied culture and the world they inhabit.

Since Jewish Studies is an interdisciplinary field, many students simultaneously pursue majors or certificates in other departments, including Art, Education, Geography, History, Music, Political Science, Religious Studies, and Sociology. Given the broad historical and geographical of the Jewish experience, Jewish Studies also pairs well with programs like African Studies, Classical and Near Eastern Studies, European Studies, German/Nordic/Slavic Studies, and Middle Eastern Studies. For the same reason, many of Jewish Studies courses fulfill General Education requirements, including Humanities and Literature, Ethnic Studies, Foreign Language, and Communications Part B. To get a sense of the variety of our offerings, check out our current and recent courses (<https://cjs.wisc.edu/courses/>).

Building on a strong foundation in the humanities and social sciences, you may go on to pursue a variety of career paths, such as education, library and information sciences, finance and international trade, journalism and mass media, social work, and the nonprofit sector. Our graduates are

also well prepared to apply for law school, graduate school, or rabbinical studies.

Questions? Contact undergraduate advisor Gwen Walker: [undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu).

## HOW TO GET IN

### ENROLLMENT GUIDANCE

Students with prior language study or experience as a speaker of Modern Hebrew should contact the Undergraduate Advisor in the Mosse/Weinstein Center for Jewish Studies for enrollment guidance.

### DECLARING THE MAJOR

Prospective majors in Jewish Studies should make an appointment with the undergraduate advisor ([undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu)) to discuss requirements and courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The Jewish Studies major requires 10 courses, totaling at least 29 credits, in 5 areas: 1) one Gateway Course; 2) two courses in Literature, Philosophy, and the Arts; 3) two courses in History and Social Science; 4) four courses in Modern Hebrew; and 5) the Core Seminar. Each course may count toward only one required area.

### GATEWAY COURSE

Complete one Gateway Course.

Code	Title	Credits
<b>Gateway Course (complete one):</b>		
JEWISH/LEGAL ST/RELIG ST 203	Jewish Law, Business, and Ethics	
JEWISH/RELIG ST 211	Introduction to Judaism	

## LITERATURE, PHILOSOPHY, AND THE ARTS

Complete two courses in Literature, Philosophy, and the Arts, at least one of which must fulfill the Jewish Diaspora requirement,

Code	Title	Credits
<b>Jewish Diaspora (complete at least one course):</b>		
JEWISH/ GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH/ GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	
JEWISH/ LITTRANS 318	Modern Jewish Literature	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
JEWISH/ ENGL 370	Jewish Humor	
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century	
JEWISH/ ENGL 539	Jewish Literatures in Diaspora	
JEWISH/ ENGL 593	Literature of Jewish Identity in America	
<b>Complete any additional Diaspora course from the list above, or any of the following:</b>		
JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
JEWISH 230	Elementary Topics in Jewish Literature	
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	
JEWISH 236	Bascom Course	
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	
JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature	
JEWISH/ LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	
JEWISH/ CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
JEWISH/ CLASSICS/ RELIG ST 335	King David in History and Tradition	
JEWISH/ CLASSICS/ RELIG ST 346	Jewish Literature of the Greco-Roman Period	

JEWISH 356	Jerusalem, Holy City of Conflict and Desire
JEWISH/ LITTRANS 367	Israeli Fiction in Translation
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I
JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II
JEWISH 430	Intermediate Topics in Jewish Literature
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
JEWISH/HEBR- BIB 513	Biblical Texts, Poetry
JEWISH/HEBR- BIB 514	Biblical Texts, Poetry
JEWISH 630	Advanced Topics in Jewish Literature
JEWISH 632	Advanced Topics in Jewish Philosophy and the Arts

## HISTORY AND SOCIAL SCIENCE

Complete two courses in History and Social Science, at least one of which must fulfill the Jews in America requirement.

Code	Title	Credits
<b>Jews in America (complete at least one course):</b>		
JEWISH/ HISTORY 213	Jews and American Pop. Culture	
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
<b>Complete any additional Jews in America course from the list above, or any of the following:</b>		
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	
JEWISH 231	Elementary Topics in Jewish History	
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH/ HISTORY 310	The Holocaust	
JEWISH/ILS/ SOC 423	Modern Jewish Thought	
JEWISH 431	Intermediate Topics in Jewish History	
JEWISH 433	Intermediate Topics in Jewish Studies: Social Sciences	
JEWISH/ CLASSICS 451	Biblical Archaeology	

JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945
JEWISH 631	Advanced Topics in Jewish History

## MODERN HEBREW

Complete four courses in Modern Hebrew at appropriate level.

Code	Title	Credits
HEBR-MOD 101	First Semester Hebrew	
HEBR-MOD 102	Second Semester Hebrew	
HEBR-MOD 201	Third Semester Hebrew	
HEBR-MOD 202	Fourth Semester Hebrew	
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	

## CORE SEMINAR

Complete the Core Seminar.

Code	Title	Credits
JEWISH 350	What Is Jewish Studies?	

## NOTE ON DIRECTED STUDY

With prior consent of the undergraduate advisor in Jewish studies and the relevant instructor, students may use one Directed Study course (JEWISH 699) to satisfy a requirement for the major.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all JEWISH courses and all courses accepted in the major
- 2.000 GPA on 15 upper-level major credits, taken in residence. Upper-level work includes all Intermediate or Advanced level courses in the Jewish Studies major.
- 15 credits in JEWISH, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Jewish Studies undergraduate advisor.

### HONORS IN THE JEWISH STUDIES MAJOR: REQUIREMENTS

To earn Honors in the Major students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all JEWISH courses, and all courses accepted in the major
- Complete at least two courses, taken for Honors, in the major, with grades of B or better in each

- Complete a two-semester Senior Honors Thesis, a piece of original research composition, in JEWISH 681 and JEWISH 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Proficiency in reading, writing, understanding, and conversing in Hebrew or another approved Jewish language, attained through four semesters of study
2. Ability to read Jewish texts closely and to write original, coherent, and compelling arguments that push beyond summary to analysis
3. Knowledge of Jewish civilization, culture, and society in both the past and the present
4. Development, pursuit, and presentation of original research in Jewish studies culminating in a substantive academic paper that utilizes and cites appropriate sources
5. Appreciation for diverse worldviews and value systems, including an understanding of interactions between Jews and non-Jews within the context of minority-majority relationships in Wisconsin, in the United States, and across the globe

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

**First Year**

Fall	Credits	Spring	Credits
HEBR-MOD 101	4	HEBR-MOD 102	4
JEWISH/LEGAL ST/ RELIG ST 203 or 211	3	Quantitative Reasoning B	3
Communication A	3	Communications B	3
Quantitative Reasoning A	3	Science Breadth	3
Elective (Elementary level)	3	Elective (Elementary level)	3
<b>16</b>		<b>16</b>	

**Second Year**

Fall	Credits	Spring	Credits
HEBR-MOD 201	4	HEBR-MOD 202	4
JEWISH/HISTORY 219 (meets Ethnic Studies; Jews in America [History/Social Science])	4	Biological Science Breadth	3
Physical Science Breadth	3-4	JEWISH/PHILOS 442 (meets Literature/ Philosophy/Arts)	3
Elective (Intermediate level)	3	Electives (Intermediate level)	6
<b>14</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
JEWISH/HISTORY 310 (meets History/Social Science)	4	JEWISH 350	3
Science Breadth	3	JEWISH 416 (meets Literature/Philosophy/ Arts)	3
Social Science Breadth (if needed)	3	Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3
Electives (Intermediate or Advanced level)	6	Social Science Breadth (if needed)	3
		Elective (Intermediate or Advanced level)	3
<b>16</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
Intermediate/Advanced COMP SCI, MATH, or STAT (if B.S.)	3	Electives (Intermediate or Advanced level)	12
Electives (Intermediate or Advanced level)	12		
<b>15</b>		<b>12</b>	

**Total Credits 120****ADVISING AND CAREERS**

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Building on a strong foundation in the humanities and social sciences, you may go on to pursue a variety of career paths, such as education, library and information sciences, finance and international trade, journalism and mass media, social work, and the nonprofit sector. Our graduates are also well prepared to apply for law school, graduate school, or rabbinical studies.

Questions? Contact undergraduate advisor Gwen Walker: [undergrad-adviser@cjs.wisc.edu](mailto:undergrad-adviser@cjs.wisc.edu).

## HOW TO GET IN

Students interested in a certificate in Jewish Studies should make an appointment with the undergraduate advisor (undergrad-adviser@cjs.wisc.edu) to discuss requirements and courses.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The Jewish Studies certificate requires 5 courses, totaling at least 15 credits, in 4 areas: 1) one course in Literature, Philosophy, or the Arts; 2) one course in History or Social Science; 3) one course in Pre-Modern Jewish History, Culture, or Literature; and 4) two courses in an approved Jewish language. Each course may count toward only one required area.

### LANGUAGE REQUIREMENT

Complete two courses in one of the following approved Jewish languages at the appropriate level.

Code	Title	Credits
<i>Biblical Hebrew (Select 2 courses):</i>		
HEBR-BIB 103 or HEBR-BIB 303	Elementary Biblical Hebrew, I Elementary Biblical Hebrew, I	
HEBR-BIB 104 or HEBR-BIB 304	Elementary Biblical Hebrew, II Elementary Biblical Hebrew, II	
HEBR-BIB 323	Intermediate Biblical Hebrew, I	
HEBR-BIB 324	Intermediate Biblical Hebrew, II	
HEBR-BIB/ JEWISH 513	Biblical Texts, Poetry	
HEBR-BIB/ JEWISH 514	Biblical Texts, Poetry	
<i>Modern Hebrew (Select 2 courses):</i>		
HEBR-MOD 101	First Semester Hebrew	
HEBR-MOD 102	Second Semester Hebrew	
HEBR-MOD 201	Third Semester Hebrew	
HEBR-MOD 202	Fourth Semester Hebrew	
HEBR-MOD/ JEWISH 301	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	
HEBR-MOD/ JEWISH 401	Topics in Modern Hebrew / Israeli Literature and Culture I	
HEBR-MOD/ JEWISH 402	Topics in Modern Hebrew / Israeli Literature and Culture II	
<i>Yiddish (Select 2 courses)</i>		
JEWISH/GNS 105	First Semester Yiddish	
JEWISH/GNS 106	Second Semester Yiddish	

### LITERATURE, PHILOSOPHY, OR THE ARTS

Complete one course in Literature, Philosophy, or the Arts.

Code	Title	Credits
JEWISH/ LEGAL ST/ RELIG ST 203	Jewish Law, Business, and Ethics	
JEWISH/ RELIG ST 211	Introduction to Judaism	
JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
JEWISH 230	Elementary Topics in Jewish Literature	
JEWISH 232	Elementary Topics in Jewish Philosophy and the Arts	
JEWISH 236	Bascom Course	
JEWISH/ GERMAN/ LITTRANS 269	Yiddish Literature and Culture in Europe	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH/ GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	
JEWISH 299	Directed Study	
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	
JEWISH/HEBR- MOD 302	Introduction to Hebrew Literature	
JEWISH/ LITTRANS 318	Modern Jewish Literature	
JEWISH/ RELIG ST 322	The Sabbath	
JEWISH/ LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	
JEWISH/ CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
JEWISH/ CLASSICS/ RELIG ST 335	King David in History and Tradition	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
JEWISH/ CLASSICS/ RELIG ST 346	Jewish Literature of the Greco- Roman Period	
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	
JEWISH/ LITTRANS 367	Israeli Fiction in Translation	
JEWISH/ ENGL 370	Jewish Humor	
JEWISH/HEBR- MOD 401	Topics in Modern Hebrew / Israeli Literature and Culture I	



JEWISH/HEBR- MOD 402	Topics in Modern Hebrew / Israeli Literature and Culture II
JEWISH 430	Intermediate Topics in Jewish Literature
JEWISH 432	Intermediate Topics in Jewish Philosophy and the Arts
JEWISH/ PHILOS 442	Moral Philosophy and the Holocaust
JEWISH/HEBR- BIB 513	Biblical Texts, Poetry
JEWISH/HEBR- BIB 514	Biblical Texts, Poetry
JEWISH/ ENGL 539	Jewish Literatures in Diaspora
JEWISH/ ENGL 593	Literature of Jewish Identity in America
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century
JEWISH/ GERMAN 510	German-Jewish Culture Since the 18th Century
JEWISH 630	Advanced Topics in Jewish Literature
JEWISH 632	Advanced Topics in Jewish Philosophy and the Arts
JEWISH 699	Directed Study

## HISTORY OR SOCIAL SCIENCE

Complete one course in History or Social Science.

Code	Title	Credits
JEWISH/ LEGAL ST/ RELIG ST 203	Jewish Law, Business, and Ethics	
JEWISH/ RELIG ST 211	Introduction to Judaism	
JEWISH/ HISTORY 213	Jews and American Pop. Culture	
JEWISH/ HISTORY 219	The American Jewish Experience: From Shtetl to Suburb	
JEWISH/ HISTORY 220	Introduction to Modern Jewish History	
JEWISH 231	Elementary Topics in Jewish History	
JEWISH 233	Elementary Topics in Jewish Studies: Social Sciences	
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH 299	Directed Study	
JEWISH/ HISTORY 310	The Holocaust	
JEWISH/ RELIG ST 340	The American Jewish Life of DNA	
JEWISH/ POLI SCI 341	Israeli Politics and Society	
JEWISH 350	What Is Jewish Studies?	

JEWISH/ILS/ SOC 423	Modern Jewish Thought
JEWISH 431	Intermediate Topics in Jewish History
JEWISH/ CLASSICS 451	Biblical Archaeology
JEWISH/ CURRIC/ED POL/ HISTORY 515	Holocaust: History, Memory and Education
JEWISH/ HISTORY 518	Anti-Semitism in European Culture, 1700-1945
JEWISH 631	Advanced Topics in Jewish History
JEWISH 699	Directed Study

**Total Credits** **0**

## PRE-MODERN JEWISH HISTORY, CULTURE, OR LITERATURE

Complete one course in Pre-Modern Jewish History, Culture, or Literature.

Code	Title	Credits
JEWISH/ LEGAL ST/ RELIG ST 203	Jewish Law, Business, and Ethics	
JEWISH/ RELIG ST 211	Introduction to Judaism	
JEWISH/ CLASSICS/ LITTRANS/ RELIG ST 227	Introduction to Biblical Literature (in English)	
JEWISH/ CLASSICS 241	Introduction to Biblical Archaeology	
JEWISH/ RELIG ST 278	Food in Rabbinic Judaism	
JEWISH/ RELIG ST 322	The Sabbath	
JEWISH/ LITTRANS/ RELIG ST 328	Classical Rabbinic Literature in Translation	
JEWISH/ CLASSICS/ HEBR-BIB/ LITTRANS/ RELIG ST 332	Prophets of the Bible	
JEWISH/ CLASSICS/ RELIG ST 335	King David in History and Tradition	
JEWISH/ CLASSICS/ RELIG ST 346	Jewish Literature of the Greco- Roman Period	
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	
JEWISH/PHILOS/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
JEWISH/ CLASSICS 451	Biblical Archaeology	
JEWISH/HEBR- BIB 513	Biblical Texts, Poetry	

JEWISH/HEBR- Biblical Texts, Poetry  
BIB 514

## NOTE ON DIRECTED STUDY

With prior consent of the undergraduate advisor in Jewish Studies and the relevant instructor, students may use one Directed Study course (JEWISH 699 (<https://guide.wisc.edu/search/?P=JEWISH%20699>)) to satisfy a requirement for the certificate.

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in all JEWISH courses and courses approved for the certificate
- 11 credits, counting toward the certificate, taken in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. At least two semesters of reading, understanding and conversing in Hebrew or another approved Jewish language.
2. Honed critical abilities in close reading, interpretation, and written analysis of ancient and modern Jewish texts.
3. Expanded knowledge of Jewish history, culture, philosophy, arts, religious practice, and politics in both the past and present.
4. Disposition of increased appreciation for diverse world views, value systems and interactions between Jews and non-Jews, minorities and majorities, in Wisconsin, the US, and across the globe.

## ADVISING AND CAREERS

Jewish studies can prepare one for a variety of career paths. Graduates in Jewish studies have followed a variety of different career paths, including law, medicine, education, finance, social work, and the nonprofit sector. Jewish studies students are also well prepared to apply for graduate studies in fields such as law, education, business, and social work, as well as prime candidates for rabbinical or cantorial school, theological studies, and advanced levels of Jewish studies.

The Mosse/Weinstein Center for Jewish Studies encourages students to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

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## PHILOSOPHY

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of

knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science, politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## DEGREES/MAJORS/CERTIFICATES

- Philosophy, B.A. (p. 1267)
- Philosophy, B.S. (p. 1271)

## PEOPLE

Professors Brighthouse, Clatterbuck, Fletcher, Gibson, Goodrich, Gottlieb, Loets, Kelleher, Mackay, Masrour, Messina, Nadler, Roberts, Shafer-Landau, Shapiro, Sidelle, Southgate, Steinberg, Streiffer, Titelbaum, Vranas, Whittle, Zimmerman

## PHILOSOPHY, B.A.

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science, politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## HOW TO GET IN

Students should inform the Philosophy department of their intention to major by meeting with the Undergraduate Advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR 27 CREDITS AND 8 COURSES IN PHILOS

Code	Title	Credits
PHILOS 211 or PHILOS 511	Elementary Logic Symbolic Logic	3–4
PHILOS 430	History of Ancient Philosophy	3–4
PHILOS 432	History of Modern Philosophy	3–4
<b>5 advanced PHILOS courses of at least 3 credits from below:</b>		<b>15</b>
PHILOS 430	History of Ancient Philosophy	
PHILOS 432	History of Modern Philosophy	
PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
PHILOS 440	Existentialism	
PHILOS/ ENVIR ST 441	Environmental Ethics	
PHILOS 454	Classical Philosophers	
PHILOS 481	Junior Honors Seminar	
PHILOS 482	Junior Honors Seminar	
PHILOS/ RELIG ST 501	Philosophy of Religion	
PHILOS/ RELIG ST 502	Special Topics in Philosophy of Religion	
PHILOS 503	Theory of Knowledge	

PHILOS 504	Special Topics in the Theory of Knowledge	
PHILOS 506	Study Abroad in Philosophy	
PHILOS 511	Symbolic Logic	
PHILOS 512	Methods of Logic	
PHILOS 516	Language and Meaning	
PHILOS 520	Philosophy of the Natural Sciences	
PHILOS 521	Philosophy of the Social Sciences	
PHILOS 522	Special Topic	
PHILOS/ ENVR ST 523	Philosophical Problems of the Biological Sciences	
PHILOS/ ECON 524	Philosophy and Economics	
PHILOS 530	Freedom Fate and Choice	
PHILOS 541	Modern Ethical Theories	
PHILOS 543	Special Topics in Ethics	
PHILOS 549	Great Moral Philosophers	
PHILOS/ ED POL 550	Philosophy of Moral Education	
PHILOS 551	Philosophy of Mind	
PHILOS 553	Aesthetics	
PHILOS 555	Political Philosophy	
PHILOS 556	Topics in Feminism and Philosophy	
PHILOS 557	Issues in Social Philosophy	
PHILOS 560	Metaphysics	
PHILOS 562	Special Topics in Metaphysics	
PHILOS 567	Topics in Contemporary Philosophy	
PHILOS/ MATH 571	Mathematical Logic	
PHILOS 581	Senior Honors Seminar	
PHILOS 582	Senior Honors Seminar	
<i>Additional credits—if necessary—to achieve 27 for the major</i>		<b>3</b>
<b>Total Credits</b>		<b>27</b>

## DISTRIBUTION

Of the 27 credits, at least 1 course is required from each category ('Metaphysics and Epistemology' and 'Value Theory'):

### Category 'Metaphysics and Epistemology' (complete one course):

Code	Title	Credits
PHILOS/ RELIG ST 501	Philosophy of Religion	3-4
PHILOS 503	Theory of Knowledge	3
PHILOS 504	Special Topics in the Theory of Knowledge (Bayesian Epistemology)	3
PHILOS 504	Special Topics in the Theory of Knowledge (Epistemic Ideals)	3
PHILOS 516	Language and Meaning	3
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 530	Freedom Fate and Choice	3
PHILOS 551	Philosophy of Mind	3
PHILOS 560	Metaphysics	3

PHILOS 562	Special Topics in Metaphysics (Consciousness)	3
PHILOS 567	Topics in Contemporary Philosophy	3

### Category 'Value Theory' (complete one course):

Code	Title	Credits
PHILOS 241	Introductory Ethics	3-4
PHILOS 454	Classical Philosophers (Aristotle's Ethics)	3
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 555	Political Philosophy	3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all PHILOS courses and courses that count for the major
- 2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup>
- 15 credits in PHILOS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Philosophy Major in consultation with the Philosophy undergraduate advisor.

### HONORS IN THE PHILOSOPHY MAJOR: REQUIREMENTS

To earn Honors in the Major in Philosophy, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Minimum 3.300 University GPA
- Minimum a 3.500 GPA for all PHILOS and major courses
- One *additional* course from either the Metaphysics and Epistemology or Value Theory categories with a grade of B or better
- PHILOS 681 (for 1-3 credits) and PHILOS 682 (for 3 credits) with a grade of AB or better.<sup>2</sup>

## FOOTNOTES

1

Courses between PHILOS 400-699 are considered upper-level in the major.

2

Students will not be permitted to write a Senior Honors Thesis unless they have taken at least one advanced course on the topic on which they will be writing. Credits earned by writing a Senior Honors Thesis will not count toward the 27 minimum credits required for the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Ability to think critically about arguments.
2. Ability to interpret complex texts accurately and analyze them logically.
3. Ability to communicate precisely and concisely in both writing and speech.
4. Familiarity with the history of Western philosophy and the major debates within that tradition.
5. Ability to be engaged citizens who think carefully and well about their responsibilities to others.
6. Ability to exchange reasons about controversial matters respectfully and with the aim of uncovering the truth.
7. Interpretative charity and intellectual honesty, which includes appropriate attribution to others of their ideas, and recognition and frankness about the limitations of one's own ideas.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communications A	3	Ethnic Studies	3
PHILOS 101	3–4	Foreign Language (if needed)	4

PHILOS 210	3–4 I/A MATH, STAT or COMP SCI (for B.S. degree)	3
Physical Science Breadth	3 PHILOS 241	3–4
Foreign Language (if needed)	4 PHILOS 211 (Quantitative Reasoning B)	3–4
	<b>14</b>	<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
PHILOS 430	3–4	Communication B	4
Literature Breadth	3	PHILOS 432	3–4
Social Science Breadth	4	I/A MATH, STAT, or COMP SCI (for B.S. degree)	3
INTER-LS 210	1	Social Science Breadth	4
Biological Science Breadth	3		
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Metaphysics and Epistemology category	3–4	Value Theory category course	3–4
Natural Science Breadth	3	PHILOS 400+ Electives	3–4
Literature Breadth	3	Electives	7
Electives	5		
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
PHILOS Electives	3	PHILOS 500+ Electives	3
Electives	12	Electives	12
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

The Department of Philosophy encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. Philosophy majors develop important and widely marketable skills, like the ability to think critically, communicate clearly, and solve complex problems. This means that having a major in philosophy provides excellent preparation for a variety of careers. See major declaration (<https://philosophy.wisc.edu/undergraduate-program-2/major-declaration/>) for more information.

Studying philosophy can also help you get into graduate school. Philosophy majors excel on standardized tests like the GRE, GMAT, and LSAT. They rank first among all majors on the verbal and the analytical section of the GRE. Philosophy majors also tend to do better than just about any other major on the LSAT. With a mean score of just over 157, they are second only to physics majors. When it comes to the GMAT, philosophy majors rank in the top five of all majors, and they consistently

have higher scores than business majors (including management, finance, accounting, and marketing majors).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Brighthouse, Clatterbuck, Fletcher, Gibson, Goodrich, Gottlieb, Loets, Kelleher, Mackay, Masrour, Messina, Nadler, Roberts, Shafer-Landau, Shapiro, Sidelle, Southgate, Steinberg, Streiffer, Titelbaum, Vranas, Whittle, Zimmerman

## RESOURCES AND SCHOLARSHIPS

### UNDERGRADUATE SCHOLARSHIPS

The Department of Philosophy has received generous support in order to fund two scholarships each academic year.

The **Charles Manthey Winter Philosophy Scholarship** is given to a major in philosophy who will graduate within the next four terms of the award and who has at least a 3.5 grade point average over the past two terms, and who can demonstrate financial need.

The **Colonel Jerome Ellis Goodrich, USMC (retired), Scholarship** is awarded to an undergraduate major in philosophy with academic merit and financial need, and who is a US citizen.

Applications for these scholarships are typically due in early April and winners are honored at our annual Awards Banquet in May.

We also have an annual paper prize called the **Temkin Undergraduate Essay Prize in Value Theory**. This prize recognizes an outstanding essay in value theory, where this is construed quite broadly to include topics in political philosophy, philosophy of law, metaethics, applied ethics, etc. Essays are typically submitted in early April and the winner is also honored at our Awards Banquet.

If you have any questions about these scholarships or essay prize, you may send an email to [frontoffice@philosophy.wisc.edu](mailto:frontoffice@philosophy.wisc.edu).

## PHILOSOPHY, B.S.

Philosophy involves reflection upon and understanding of all phases of human activity. Philosophy especially directs itself to the nature of knowledge and the most basic concepts of human understanding and value: morality, society, art and aesthetic experience, as well as science, politics, and religion. Philosophy is thus closely involved with other disciplines because, as human activities and quests for knowledge, they and their findings provide the material for philosophical inquiry. The courses offered by the department are designed to help students develop their own capacities to reflect intelligently on questions of fundamental and lasting significance. The philosophy major is intended to meet the needs of four types of students:

- those who wish to use philosophy as the organizing core of a liberal education;
- those who desire to study philosophy in preparation for graduate work in some other field, such as law, government, or theology;
- those who plan to major jointly in philosophy and one of the social and natural sciences or humanities; and
- those who have a professional interest in philosophy and intend to do graduate work in the subject.

## HOW TO GET IN

Students should inform the Philosophy department of their intention to major by meeting with the Undergraduate Advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR 27 CREDITS AND 8 COURSES IN PHILOS

Code	Title	Credits
PHILOS 211	Elementary Logic	3-4
or PHILOS 511	Symbolic Logic	
PHILOS 430	History of Ancient Philosophy	3-4
PHILOS 432	History of Modern Philosophy	3-4
<b>5 advanced PHILOS courses of at least 3 credits from below:</b>		<b>15</b>
PHILOS 430	History of Ancient Philosophy	
PHILOS 432	History of Modern Philosophy	
PHILOS/JEWISH/ RELIG ST 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
PHILOS 440	Existentialism	
PHILOS/ ENVIR ST 441	Environmental Ethics	
PHILOS 454	Classical Philosophers	
PHILOS 481	Junior Honors Seminar	
PHILOS 482	Junior Honors Seminar	
PHILOS/ RELIG ST 501	Philosophy of Religion	
PHILOS/ RELIG ST 502	Special Topics in Philosophy of Religion	
PHILOS 503	Theory of Knowledge	
PHILOS 504	Special Topics in the Theory of Knowledge	
PHILOS 506	Study Abroad in Philosophy	
PHILOS 511	Symbolic Logic	
PHILOS 512	Methods of Logic	
PHILOS 516	Language and Meaning	
PHILOS 520	Philosophy of the Natural Sciences	
PHILOS 521	Philosophy of the Social Sciences	
PHILOS 522	Special Topic	
PHILOS/ ENVIR ST 523	Philosophical Problems of the Biological Sciences	
PHILOS/ ECON 524	Philosophy and Economics	
PHILOS 530	Freedom Fate and Choice	
PHILOS 541	Modern Ethical Theories	
PHILOS 543	Special Topics in Ethics	
PHILOS 549	Great Moral Philosophers	
PHILOS/ ED POL 550	Philosophy of Moral Education	
PHILOS 551	Philosophy of Mind	
PHILOS 553	Aesthetics	
PHILOS 555	Political Philosophy	
PHILOS 556	Topics in Feminism and Philosophy	



PHILOS 557	Issues in Social Philosophy	
PHILOS 560	Metaphysics	
PHILOS 562	Special Topics in Metaphysics	
PHILOS 567	Topics in Contemporary Philosophy	
PHILOS/ MATH 571	Mathematical Logic	
PHILOS 581	Senior Honors Seminar	
PHILOS 582	Senior Honors Seminar	
<i>Additional credits—if necessary—to achieve 27 for the major</i>		3
<b>Total Credits</b>		<b>27</b>

## DISTRIBUTION

Of the 27 credits, at least 1 course is required from each category ('Metaphysics and Epistemology' and 'Value Theory'):

### Category 'Metaphysics and Epistemology' (complete one course):

Code	Title	Credits
PHILOS/ RELIG ST 501	Philosophy of Religion	3-4
PHILOS 503	Theory of Knowledge	3
PHILOS 504	Special Topics in the Theory of Knowledge (Bayesian Epistemology)	3
PHILOS 504	Special Topics in the Theory of Knowledge (Epistemic Ideals)	3
PHILOS 516	Language and Meaning	3
PHILOS 520	Philosophy of the Natural Sciences	3
PHILOS 530	Freedom Fate and Choice	3
PHILOS 551	Philosophy of Mind	3
PHILOS 560	Metaphysics	3
PHILOS 562	Special Topics in Metaphysics (Consciousness)	3
PHILOS 567	Topics in Contemporary Philosophy	3

### Category 'Value Theory' (complete one course):

Code	Title	Credits
PHILOS 241	Introductory Ethics	3-4
PHILOS 454	Classical Philosophers (Aristotle's Ethics)	3
PHILOS 541	Modern Ethical Theories	3
PHILOS 549	Great Moral Philosophers	3
PHILOS 555	Political Philosophy	3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all PHILOS courses and courses that count for the major
- 2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>1</sup>
- 15 credits in PHILOS, taken on campus

## HONORS IN THE MAJOR

Students may declare Honors in the Philosophy Major in consultation with the Philosophy undergraduate advisor.

## HONORS IN THE PHILOSOPHY MAJOR: REQUIREMENTS

To earn Honors in the Major in Philosophy, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Minimum 3.300 University GPA
- Minimum a 3.500 GPA for all PHILOS and major courses
- One *additional* course from either the Metaphysics and Epistemology or Value Theory categories with a grade of B or better
- PHILOS 681 (for 1-3 credits) and PHILOS 682 (for 3 credits) with a grade of AB or better.<sup>2</sup>

## FOOTNOTES

1

Courses between PHILOS 400–699 are considered upper-level in the major.

2

Students will not be permitted to write a Senior Honors Thesis unless they have taken at least one advanced course on the topic on which they will be writing. Credits earned by writing a Senior Honors Thesis will not count toward the 27 minimum credits required for the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Ability to think critically about arguments.
2. Ability to interpret complex texts accurately and analyze them logically.
3. Ability to communicate precisely and concisely in both writing and speech.
4. Familiarity with the history of Western philosophy and the major debates within that tradition.
5. Ability to be engaged citizens who think carefully and well about their responsibilities to others.

6. Ability to exchange reasons about controversial matters respectfully and with the aim of uncovering the truth.
7. Interpretative charity and intellectual honesty, which includes appropriate attribution to others of their ideas, and recognition and frankness about the limitations of one's own ideas.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communications A	3	Ethnic Studies	3
PHILOS 101	3-4	Foreign Language (if needed)	4
PHILOS 210	3-4	I/A MATH, STAT or COMP SCI (for B.S. degree)	3
Physical Science Breadth	3	PHILOS 241	3-4
Foreign Language (if needed)	4	PHILOS 211 (Quantitative Reasoning B)	3-4
<b>14</b>		<b>16</b>	

#### Second Year

Fall	Credits	Spring	Credits
PHILOS 430	3-4	Communication B	4
Literature Breadth	3	PHILOS 432	3-4
Social Science Breadth	4	I/A MATH, STAT, or COMP SCI (for B.S. degree)	3
INTER-LS 210	1	Social Science Breadth	4
Biological Science Breadth	3		
<b>15</b>		<b>15</b>	

#### Third Year

Fall	Credits	Spring	Credits
Metaphysics and Epistemology category course	3-4	Value Theory category course	3-4
Natural Science Breadth	3	PHILOS 400+ Electives	3-4
Literature Breadth	3	Electives	7
Electives	5		
<b>15</b>		<b>15</b>	

#### Fourth Year

Fall	Credits	Spring	Credits
PHILOS Electives	3	PHILOS 500+ Electives	3

Electives	12 Electives	12
<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

The Department of Philosophy encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. Philosophy majors develop important and widely marketable skills, like the ability to think critically, communicate clearly, and solve complex problems. This means that having a major in philosophy provides excellent preparation for a variety of careers. See major declaration (<https://philosophy.wisc.edu/undergraduate-program-2/major-declaration/>) for more information.

Studying philosophy can also help you get into graduate school. Philosophy majors excel on standardized tests like the GRE, GMAT, and LSAT. They rank first among all majors on the verbal and the analytical section of the GRE. Philosophy majors also tend to do better than just about any other major on the LSAT. With a mean score of just over 157, they are second only to physics majors. When it comes to the GMAT, philosophy majors rank in the top five of all majors, and they consistently have higher scores than business majors (including management, finance, accounting, and marketing majors).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students

- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Brighthouse, Clatterbuck, Fletcher, Gibson, Goodrich, Gottlieb, Loets, Kelleher, Mackay, Masrou, Messina, Nadler, Roberts, Shafer-Landau, Shapiro, Sidelle, Southgate, Steinberg, Streiffer, Titelbaum, Vranas, Whittle, Zimmerman

## RESOURCES AND SCHOLARSHIPS

### UNDERGRADUATE SCHOLARSHIPS

The Department of Philosophy has received generous support in order to fund two scholarships each academic year.

The **Charles Manthey Winter Philosophy Scholarship** is given to a major in philosophy who will graduate within the next four terms of the award and who has at least a 3.5 grade point average over the past two terms, and who can demonstrate financial need.

The **Colonel Jerome Ellis Goodrich, USMC (retired), Scholarship** is awarded to an undergraduate major in philosophy with academic merit and financial need, and who is a US citizen.

Applications for these scholarships are typically due in early April and winners are honored at our annual Awards Banquet in May.

We also have an annual paper prize called the **Temkin Undergraduate Essay Prize in Value Theory**. This prize recognizes an outstanding essay in value theory, where this is construed quite broadly to include topics in political philosophy, philosophy of law, metaethics, applied ethics, etc. Essays are typically submitted in early April and the winner is also honored at our Awards Banquet.

If you have any questions about these scholarships or essay prize, you may send an email to [frontoffice@philosophy.wisc.edu](mailto:frontoffice@philosophy.wisc.edu).

## PHYSICS

The Department of Physics has a long history of providing students with a great educational experience. The department awarded its first Ph.D. in 1899. Since then, physics students have earned degrees in virtually every area of physics, and the department's faculty has played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

## CHOOSE TO BE A PHYSICS MAJOR

### WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.
- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.
- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.
- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

A degree in physics helps prepare students for employment in industry, research, government, and academia. A bachelor's degree from the undergraduate physics program will provide an overall view of both classical and modern physics along with problem-solving ability and the flexibility to continue learning.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

## OTHER PROGRAMS

### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 1150) is described in its own section of the *Guide*.

### Astronomy-Physics

Students interested in an astronomy-physics major should contact the astronomy department (p. 497).

### Education-Physics

A student working toward the Bachelor of Science-Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1543). Upon request, the physics department will assign an advisor.

## Medical Physics

A suggested curriculum for students interested in graduate study in medical physics is available in the medical physics (<https://www.medphysics.wisc.edu/>) department office.

## DEGREES/MAJORS/CERTIFICATES

- Physics, B.A. (p. 1277)
- Physics, B.S. (p. 1285)
- Physics, Certificate (p. 1293)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai/>), Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin/>), Eugene P. Wigner Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger/>), Vilas Professor and Van Vleck Professor

Keith Bechtol (<https://www.physics.wisc.edu/people/keithbechtol/>), Assistant Professor

Uwe Bergmann (<http://www.physics.wisc.edu/people/uwebergmann/>), Martin L. Perl Endowed Professor in Ultrafast X-Ray Science

Kevin Black (<https://www.physics.wisc.edu/people/kevinblack/>), Professor, Associate Chair for Graduate Program

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislavboldyrev/>), Professor

Tulika Bose (<https://www.physics.wisc.edu/people/tulikabose/>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar/>), Van Vleck Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith/>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung/>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu/>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal/>), Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson/>), Department Chairperson and John Bardeen Professor of Physics

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett/>), Professor

Ke Fang (<http://www.physics.wisc.edu/people/kefang/>), Assistant Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest/>), Prager Professor of Experimental Physics

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert/>), Vilas Distinguished Achievement Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen/>), Gregory Breit Professor and Hildale Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson/>), Professor, WIPAC Director

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto/>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-herndon/>), Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-jjoynt/>), Professor

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle/>), Professor, IceCube Associate Director, Science and Instrumentation

Shimon Kolkowitz (<https://www.physics.wisc.edu/people/shimonkolkowitz/>), Assistant Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler/>), Arthur and Aurelia Schawlow Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko/>), Professor

Lu Lu (<http://www.physics.wisc.edu/people/lulu/>), Assistant Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon/>), Professor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott/>), Professor

Moritz Cornelius Muenchmeyer (<http://www.physics.wisc.edu/people/moritz-corneliusmuenchmeyer/>), Assistant Professor

Marshall Onellion (<https://www.physics.wisc.edu/people/marshall-fonellion/>), Professor

Yibin Pan (<https://www.physics.wisc.edu/people/yibinpan/>), Associate Professor

Brian Rebel (<https://www.physics.wisc.edu/people/brianrebel/>), Associate Professor

Mark Rzechowski (<https://www.physics.wisc.edu/people/markrzechowski/>), Associate Chairperson and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman/>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff/>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu/>), Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry/>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-ttimbie/>), Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke/>), Associate Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov/>),  
Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker/>),  
Professor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu/>), Enrico  
Fermi Professor and Vilas Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz/>),  
Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel/>),  
William L Kraushaar Professor of Astronomy & Physics

## PHYSICS, B.A.

### WELCOME TO THE UW-MADISON DEPARTMENT OF PHYSICS

We have a long history of providing our students with a great educational experience. Our physics department awarded its first Ph.D. in 1899. Since then, our students have earned degrees in virtually every area of physics, and our faculty have played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

### CHOOSE TO BE A PHYSICS MAJOR

#### WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.
- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.
- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.
- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

The undergraduate physics program will provide an overall view of both classical and modern physics with the flexibility to continue learning in fields that interest you. It will also help you develop skills in analysis, problem-solving, and quantitative reasoning that will aid you in whatever career you pursue after graduation.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

Interested in the undergraduate physics program? Check out the physics undergraduate page (<https://www.physics.wisc.edu/academics/undergrads/>) or browse the Undergraduate Physics Majors Handbook (<https://www.physics.wisc.edu/undergrads/handbook.pdf>).

### OTHER PROGRAMS

#### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 1150) is described in its own section of the *Guide*.

#### Astronomy-Physics

Students interested in an astronomy-physcis major should contact the astronomy department (p. 497).

#### Education-Physics

A student working toward the Bachelor of Science-Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1543). Upon request, the physics department will assign an advisor.

#### Medical Physics

A suggested curriculum for students interested in graduate study in medical physics is available on the medical physics webpage (<https://www.medphysics.wisc.edu/graduate-program/admissions/#requirements>).

### HOW TO GET IN

#### TO DECLARE A PHYSICS MAJOR

Students should discuss declaration with one of the undergraduate advisors (p. 1281) as early as possible and bring a What-If DARS for the Physics major to their meeting.

To be eligible to declare the major, students must have a combined MATH and PHYSICS GPA of at least a 2.500. Eligible students can declare the physics major anytime by completing the department's major declaration form (<https://www.physics.wisc.edu/sites/default/files/Physics%20Declaration%20Form.pdf>) and having it signed by a physics undergraduate advisor.

There are additional steps to declaring Physics as an Additional Major. Section C of the major declaration form (<https://www.physics.wisc.edu/sites/default/files/Physics%20Declaration%20Form.pdf>) has important information about this process. Students should consult the Guide page

of their home school or college for more information about declaring an Additional Major in L&S.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The physics major requires 35 credits from the following:

Code	Title	Credits
<b>Introductory Physics <sup>1</sup></b>		
<i>First Introductory Course (complete one): <sup>1</sup></i>		5
PHYSICS 247	A Modern Introduction to Physics (recommended)	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>2</sup>	
E M A 201 & M E 240	Statics and Dynamics <sup>2</sup>	
<i>Second Introductory Course (complete one):</i>		5
PHYSICS 248	A Modern Introduction to Physics (recommended)	
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
<i>Third Introductory Course (complete one):</i>		3–4
PHYSICS 249	A Modern Introduction to Physics (recommended)	
PHYSICS 205	Modern Physics for Engineers (not recommended for majors)	

PHYSICS/ E C E 235	Introduction to Solid State Electronics (not recommended for majors)	
PHYSICS 241	Introduction to Modern Physics	
<b>Intermediate Mechanics</b>		
PHYSICS 311	Mechanics	3
<b>Electromagnetism (complete one): 3-9</b>		
PHYSICS 322	Electromagnetic Fields	
E C E 220 & E C E 320 & E C E 420	Electrodynamics I and Electrodynamics II and Electromagnetic Wave Transmission <sup>3</sup>	
<b>Thermal Physics (complete one): 3-6</b>		
PHYSICS 415	Thermal Physics <sup>4</sup>	
CHEM 561 & CHEM 562	Physical Chemistry and Physical Chemistry <sup>5</sup>	
M E 361	Thermodynamics	
<b>Quantum Mechanics (complete one): 3-6</b>		
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics	
PHYSICS 531	Introduction to Quantum Mechanics	
<b>Laboratory 6</b>		
<i>Full registered credit per course:</i>		
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	
PHYSICS 407	Advanced Laboratory	
<i>Two credits apply from each of the following:</i>		
PHYSICS 321	Electric Circuits and Electronics <sup>6</sup>	
PHYSICS 325	Optics <sup>6</sup>	
PHYSICS 623	Electronic Aids to Measurement <sup>6</sup>	
PHYSICS 625	Applied Optics <sup>6</sup>	
N E 427	Nuclear Instrumentation Laboratory <sup>7</sup>	
N E 428	Nuclear Reactor Laboratory <sup>7</sup>	
<i>One credit applies from each of the following:</i>		
E C E 305	Semiconductor Properties Laboratory <sup>7</sup>	
E C E 313	Optoelectronics Lab <sup>7</sup>	
<b>Advanced Physics Electives 0-4</b>		
<b>Total Credits</b>		<b>35</b>

1  
The introductory course sequence consists of three courses: PHYSICS 247/PHYSICS 248/PHYSICS 249 in the honors sequence recommended for prospective physics majors, PHYSICS 201/PHYSICS 202/PHYSICS 205 is recommend for engineers, and PHYSICS 207/PHYSICS 208/PHYSICS 241 is intended for life sciences and chemistry majors, and is a suitable alternative for physics majors. Although the department recommends following one of these sequences, students are allowed to mix them, with the exception that transfers into the PHYSICS 247/PHYSICS 248/PHYSICS 249 honors sequence are not permitted.

2  
Both courses must be taken and together count 5 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

3  
All three of E C E 220 and E C E 320 and E C E 420 must be taken, and together count 3 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

4  
PHYSICS 415 is strongly recommend as the course to satisfy the Thermal Physics Requirement, except for students pursuing additional majors in physics.

5  
Both courses CHEM 561 and CHEM 562 must be taken and together count 3 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

6  
All four credits for each course count toward 35-credit total.

7  
For non-PHYSICS courses, students will receive only the credit applied as lab toward the 35-credit requirement.

### ADVANCED PHYSICS ELECTIVE COURSES

Code	Title	Credits
PHYSICS 301	Physics Today (recommended) <sup>8</sup>	1
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	2
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
PHYSICS 322	Electromagnetic Fields	3
PHYSICS 323	Electromagnetic Fields	3
PHYSICS 325	Optics	4
PHYSICS 406	Special Topics in Physics	1-4
PHYSICS 407	Advanced Laboratory	2-4
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3
PHYSICS 498	Directed Study	1-3
PHYSICS 499	Directed Study	1-3
PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiation Physics and Dosimetry	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS/E C E/ N E 527	Plasma Confinement and Heating	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3

PHYSICS/E C E 546 Lasers	2-3
PHYSICS 551 Solid State Physics	3
PHYSICS 623 Electronic Aids to Measurement	4
PHYSICS 625 Applied Optics	4
PHYSICS 681 Senior Honors Thesis	3
PHYSICS 682 Senior Honors Thesis	3
PHYSICS 691 Senior Thesis	2-3
PHYSICS 692 Senior Thesis	2-3

**8**

It is recommended that the student's program include the seminar PHYSICS 301 Physics Today.

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

- 2.000 GPA in all PHYSICS and all major courses
- 2.000 on at least 15 credits in Upper Level work, taken in residence<sup>9</sup>
- 15 credits in PHYSICS, taken on campus

**9**

Courses that meet the Core and Laboratory requirements, and Advanced level PHYSICS courses, count as upper-level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with their major advisor and the Honors Program.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all PHYSICS and all major courses
- 12 credits of Honors PHYSICS courses with grades of B or better, to include:
  - PHYSICS 681 - PHYSICS 682, for a total of 6 credits
  - 3 additional credits of Advanced level PHYSICS for Honors, with a grade of B or better
  - 3 credits at any level in PHYSICS for Honors, with a grade of B or better

## DISTINCTION IN THE MAJOR

Distinction in the Major requires no declaration, and is awarded at the time of graduation. Students may not receive Distinction and Honors in the same major. To receive Distinction in the Major, students must have met the following requirements and notify a departmental advisor:

- 3.300 University GPA
- 3.300 GPA in all PHYSICS and all major courses
- 6 additional credits in Advanced level PHYSICS beyond the minimum required for the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand basic physical principles.
2. Solve problems proficiently using both quantitative and qualitative applications of these physical principles.
3. Appreciate the excitement of physics and be acquainted with a wide range of research areas in physics.
4. Know how to perform quantitative measurements of physical phenomena and understand the statistical significance of observations made in the presence of statistical and systematic uncertainties.
5. Be prepared for graduate study and/or careers in STEM fields.
6. Communicate effectively with scientific peers and the public, both orally and in writing.
7. Understand their own learning processes and be able to continue to educate themselves after graduation.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Students should arrange a meeting with a departmental advisor as soon as they are even thinking about a physics major. It is important to get major advising as early as possible.

This is one of many paths through the physics major. For other possibilities and details on math preparation and sequence of courses, see the



Advising and Careers page (<https://guide.wisc.edu/undergraduate/letters-science/physics/physics-bs/#advisingandcareerstext>).

### First Year

Fall	Credits	Spring	Credits
PHYSICS 247 (Physics First Introductory Course)	5	PHYSICS 248 (Physics Second Introductory Course)	5
MATH 234	4	MATH 319	3
Communication A	3	MATH 340	3
Foreign Language (if needed)	4	Ethnic Studies	3
	<b>16</b>		<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
PHYSICS 249 (Physics Third Introductory Course)	4	PHYSICS 301	1
PHYSICS 311 (Mechanics)	3	PHYSICS 307 (Laboratory)	2
MATH 321	3	PHYSICS 322	3
Social Science Breadth	3	MATH 322	3
INTER-LS 210	1	Biological Science Breadth	3
		Social Science Breadth	3
	<b>14</b>		<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
PHYSICS 321	4	PHYSICS 407 (Laboratory)	2-4
PHYSICS 448 (Quantum Physics)	3	PHYSICS 415 (Thermal Physics)	3
Communication B	3-4	PHYSICS 449	3
Humanities Breadth	3	Humanities Breadth	3
Social Science Breadth	3	Social Science Breadth	3
	<b>16</b>		<b>14</b>

### Fourth Year

Fall	Credits	Spring	Credits
Literature Breadth	3	Literature Breadth	3
Electives	12	Electives	13
	<b>15</b>		<b>16</b>

**Total Credits 120**

## ADVISING AND CAREERS

# PHYSICS UNDERGRADUATE ADVISORS

**Evan Heintz**

**Professor Tulika Bose**

**Professor Deniz Yavuz**

## SCHEDULING AN ADVISING APPOINTMENT WITH A PHYSICS MAJOR ADVISOR:

To meet with a Physics major advisor, you may either email [physics-advisors@wisc.edu](mailto:physics-advisors@wisc.edu) or contact one of them directly.

## PHYSICS AMEP ADVISORS

**Professor Cary Forest**

**Professor Robert McDermott**

**Professor Thad Walker**

**Professor Deniz Yavuz**

## SCHEDULING AN ADVISING APPOINTMENT WITH AN AMEP ADVISOR:

Applied Math Engineering Physics (AMEP) students may email [AMEP-advisors@wisc.edu](mailto:AMEP-advisors@wisc.edu). If you already have an assigned AMEP advisor in the physics department, please contact them directly.

## ADVISING FOR SOAR STUDENTS

Email [physics-advisors@wisc.edu](mailto:physics-advisors@wisc.edu) or [AMEP-advisors@wisc.edu](mailto:AMEP-advisors@wisc.edu), depending on your interests. Include contact information and your availability.

The Department of Physics encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Additional Resources:

- Link to physics department student jobs and research opportunities (<https://www.physics.wisc.edu/academics/undergrads/news/>)

## ADVISORY INFORMATION

### Mathematics

There are specific math courses listed as prerequisites for our Physics courses. Depending on your interest in math (some Physics majors also major in Math as well), the courses you select may be different. A typical math sequence is: MATH 221, MATH 222, MATH 234, MATH 319, MATH 340, MATH 321, MATH 322. MATH 320 is an alternative course majors may pursue instead of taking both MATH 319 and MATH 340. Please consult with an advisor when choosing your Mathematics courses, particularly before deciding on one of the honors sequences in Math. We do not recommend the honors sequences for physics majors unless you are considering a second major in Math.

MATH 221 Calculus and Analytic Geometry 1: MATH 221 is a prerequisite to PHYSICS 247, PHYSICS 207, and PHYSICS 201.

MATH 222 Calculus and Analytic Geometry 2: MATH 222 is also a prerequisite for PHYSICS 247 but can be taken concurrently.

MATH 234 Calculus--Functions of Several Variables: MATH 234 is a prerequisite for PHYSICS 248 but can be taken concurrently. It is typically taken to complete the sequence MATH 221/MATH 222/MATH 234.

MATH 319 Techniques in Ordinary Differential Equations: Techniques for solving and approximating solutions to ordinary differential equations. You are strongly advised to take MATH 319 and MATH 340, or MATH 320 before PHYSICS 311 Mechanics.

MATH 340 Elementary Matrix and Linear Algebra: This course is a bridge between concrete and abstract math. The next step for students interested in more abstract math is MATH 521/MATH 522. MATH 340 is particularly useful for PHYSICS 311 and later for quantum mechanics and we strongly suggest taking it or MATH 320.

MATH 320 Linear Algebra and Differential Equations: This course combines topics from MATH 319 and MATH 340. It is adequate for the rest of our undergraduate physics curriculum but is not recommended for those planning on continuing to graduate school. There is an accelerated honors section that thoroughly covers all of the material in MATH 319 and MATH 340. It is more challenging but is a good way to fit in both topics if you are unable to take MATH 319/MATH 340 before you take PHYSICS 311.

MATH 321 Applied Mathematical Analysis: Techniques for solving problems in the physical sciences, engineering, and applied mathematics, using advanced calculus and analytic function theory. It is recommended that MATH 321 be taken before taking PHYSICS 322. MATH 321 is highly recommended for physics majors but requires a significant time commitment.

MATH 322 Applied Mathematical Analysis: Techniques for solving partial differential equations, with an emphasis on practical problems in the physical sciences. Also covers special functions, Fourier Transformations, etc. MATH 321 and MATH 322 are recommended for those planning to continue on to graduate school in Physics.

### Chemistry

A college course in chemistry is useful for all physics students, but not required.

### Computing

Students should become familiar with scientific programming. The most useful languages are Python followed by C or C++. The computer sciences department offers introductory courses. The Division of Information Technology (DoIT) also offers short courses to introduce programming.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)

- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai/>), Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin/>), Eugene P. Wigner Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger/>), Vilas Professor and Van Vleck Professor

Keith Bechtol (<https://www.physics.wisc.edu/people/keithbechtol/>), Assistant Professor

Uwe Bergmann (<http://www.physics.wisc.edu/people/uwebergmann/>), Martin L. Perl Endowed Professor in Ultrafast X-Ray Science

Kevin Black (<https://www.physics.wisc.edu/people/kevinblack/>), Professor, Associate Chair for Graduate Program

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislavboldyrev/>), Professor

Tulika Bose (<https://www.physics.wisc.edu/people/tulikabose/>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar/>), Van Vleck Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith/>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung/>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu/>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal/>), Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/markariksson/>), Department Chairperson and John Bardeen Professor of Physics

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett/>), Professor

Ke Fang (<http://www.physics.wisc.edu/people/kefang/>), Assistant Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest/>), Prager Professor of Experimental Physics

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert/>), Vilas Distinguished Achievement Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen/>), Gregory Breit Professor and Hildale Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson/>), Professor, WIPAC Director

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto/>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-herndon/>), Professor

Robert Joynt (<https://www.physics.wisc.edu/people/robert-jjoynt/>), Professor

Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle/>), Professor, IceCube Associate Director, Science and Instrumentation

Shimon Kolkowitz (<https://www.physics.wisc.edu/people/shimonkolkowitz/>), Assistant Professor

James Lawler (<https://www.physics.wisc.edu/people/james-elawler/>), Arthur and Aurelia Schawlow Professor

Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko/>), Professor

Lu Lu (<http://www.physics.wisc.edu/people/lulu/>), Assistant Professor

Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon/>), Professor

Robert McDermott (<https://www.physics.wisc.edu/people/robert-fmcdermott/>), Professor

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Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman/>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff/>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu/>), Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry/>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-ttimbie/>), Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke/>), Associate Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov/>), Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker/>), Professor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu/>), Enrico Fermi Professor and Vilas Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz/>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel/>), William L Kraushaar Professor of Astronomy & Physics

## WISCONSIN EXPERIENCE

### PHYSICS UNDERGRADUATE COLLOQUIUM

There is a weekly series of talks in the spring semester called "Physics Today," at which a topic of local research is described by one of the physics faculty. These are open and may be attended by anyone. They can also be taken as a course, PHYSICS 301 Physics Today. See the Course Guide for location and time.

## THE PHYSICS CLUB

The University Physical Society (UPS)—also known as the Physics Club—is a student organization for people interested in physics and related fields.

### WHAT DOES THE PHYSICS CLUB DO?

The Physics Club organizes events such as seminars, tours, trips, and socials for its members. Physics Club volunteers also offer free drop-in tutoring to students in introductory physics and astronomy classes. In addition, we maintain subscriptions to science related magazines such as *Scientific American*, *Astronomy*, and *Physics Today*, which are kept in the club's room located at 2328 Chamberlin Hall. Every Friday afternoon, we meet with the physics colloquium speaker to learn about the process of becoming a scientist. In addition, UPS sponsors a variety of other events. For example, in the past, we have taken a field trip to Fermilab, sponsored a racquetball tournament, and have frequently gathered for social events such as ice skating, movie night, and bowling.

### WHY SHOULD YOU JOIN THE PHYSICS CLUB?

By joining the Physics Club you'll be meeting many physics majors, who are, in general, really cool people to hang out with. If you are thinking about declaring a physics major, this is the place to come for helpful advice about taking classes and finding an undergraduate job in the physics department. If you join, you can get access to the Physics Club room, 2328 Chamberlin Hall. Joining also adds you to the club email list, so you can be notified about club sponsored events.

### PERKS OF BEING A PHYSICS CLUB MEMBER

When you join the Physics Club, you get access to an excellent room, 2328 Chamberlin Hall. This room contains a refrigerator, reference shelves of textbooks, couch, tables, and chairs, a phone, blackboards, and a microwave. We have a several computers in the room. You can get your

own key to the room and visit at your leisure, and stay as long as you like. Plus, you get the added bonus of knowing people who are in your classes.

### University Physical Society

2328 Chamberlin Hall

email: ups.officers@gmail.com

#### To Join:

Drop by Room 2328 Chamberlin Hall and pick up a membership form. Turn in a completed form with your annual dues to a UPS club officer.

## GENDER MINORITIES AND WOMEN IN PHYSICS

Gender Minorities and Women in Physics (GMaWiP) is a student organization open to undergraduates for the support and promotion of gender minorities and women in physics at UW–Madison. GMaWiP works to provide both professional development and support for women and gender minorities in physics at every step in their careers by taking concrete actions through the following methods:

1. Career Development
2. Mentorship
3. Fellowship
4. Outreach

In addition, they provide advocacy for other minorities in physics, including, but not limited to students of color, students with disability status, low-income students, and LGBT+ students. The group also hosts social events throughout the year aimed at building a sense of community among the members.

### GREAT IDEAS

GMaWiP also hosts a bi-weekly GREAT IDEAS (Group for Reading, Educating, And Talking about Inclusion, Diversity, Equity, & Advocacy in Science) seminar. GREAT IDEAS is a multimedia reading group dedicated to amplifying the experiences of underrepresented groups in science and academia in order to become better advocates for our peers. GREAT IDEAS is open to everyone, and all are welcome and encouraged to engage with the material and contribute to the discussions.

### UNDERGRADUATE MENTORSHIP PROGRAM

GMaWiP also provides a mentorship program for undergraduate students. This program connects the undergraduate with a graduate student who will advise and mentor the undergraduate as they work to obtain their degree. If you are interested in this mentorship program or are interested in getting involved with GMaWiP, please fill out this contact form ([https://gmawip.physics.wisc.edu/?page\\_id=72](https://gmawip.physics.wisc.edu/?page_id=72)).

## PHYSICS LEARNING CENTER

The Physics Learning Center: Striving to help all students succeed in Physics

- Do you enjoy Physics?
- Are you patient?
- Do you like to teach?
- Would you like to help other undergraduate students?

The Physics Learning Center (PLC) has job opportunities for physics undergraduates as Peer Mentor Tutors (PMT). The PLC is looking

for PMTs who have a desire to help others learn physics and have an enthusiasm for learning new ways to solve physics problems.

The PLC provides supplemental instruction and a supportive learning environment to students in large challenging introductory physics courses. They include algebra-based Physics 103-104 and calculus-based 207-208 that are requisites for many STEM majors and pre-health professional pathways. The majority of students in these classes are not physics majors.

PMTs lead a learning team twice a week helping students build a conceptual framework to solve a variety of physics problems. The PLC strives to create a supportive learning environment to help students gain skills, increase confidence, and meet potential study partners.

Peer Mentor Tutors receive extensive training in teaching Physics and in general pedagogy. Tutors meet with a PLC staff member each week to discuss strategies for teaching course content, including how to use teaching materials that stress conceptual understanding. In addition, PMTs from all courses meet as a group for a weekly teaching seminar to discuss issues such as group dynamics, techniques for actively involving students in learning, helping students to prepare for exams, raising awareness of diversity in student experiences, resources on campus, etc.

Our Peer Mentor Tutors report that they greatly enjoy working with their students. In the process, they strengthen their own foundation in Physics and presentation skills. They also tell us that teaching Physics helps to review for the Graduate Record Exam and to prepare for post-graduate teaching in middle/high school or as a University teaching assistant.

PMTs are a mix of students majoring in physics, astrophysics, secondary science education, and engineering as well as from other majors. This is a paid position taking about eight hours per week that includes learning team time, content and pedagogy meetings, reviews before exams, and time to prepare for teaching.

To find out more about the PLC Peer Mentor Tutor Program, please contact us. The PLC is located in Chamberlin 2337/2338.

### Physics Learning Center

2337/2338 Chamberlin Hall

**Contact:** Susan Nossal

[nossal@physics.wisc.edu](mailto:nossal@physics.wisc.edu)

608-262-9107

## RESOURCES AND SCHOLARSHIPS

The Physics Department is very happy to offer a number of awards for undergraduate and graduate students in physics each year. Many of these awards have been made possible through very generous donations by alumni and friends of the Department.

A list of all the undergraduate and graduate awards can be found on the physics website (<https://www.physics.wisc.edu/department/awards/apply/>).

## APPLICATION PROCESS

### Eligibility

- Must be enrolled as a full-time student at UW-Madison in both semesters of the Academic Year
- Must be a physics major (some awards also include astronomy majors)

Applicants will be judged by the Student Awards Committee. You may apply for a specific award below however the Committee will consider all eligible applications for relevant awards. The Committee will review your transcript.

The call for applications is often sent out near the end of fall semester with the deadline for applications often falling slightly after the beginning of spring semester. The awards decisions will be made by the Awards Committee soon thereafter. Awardees will be notified and asked to attend the Physics Awards Banquet to be held at the end of the spring semester.

### TO APPLY

Once the call for applications has been sent out, each applicant is to submit the following (in PDF) by the deadline via WiSH (<https://wisc.academicworks.com/>):

- Resume/CV
- Statement of current research/teaching activity and future plans as a physics major (one page)
- Letter of recommendation from a faculty or staff member (one page)
- On-line application system will automatically prompt letter writer to submit letter
- If indicated below, a statement of need (one page)

### For More information

Please visit the Department of Physics Awards webpage (<https://www.physics.wisc.edu/awards/>) or contact the Department of Physics [info@physics.wisc.edu](mailto:info@physics.wisc.edu)

## PHYSICS, B.S.

The Department of Physics has a long history of providing students with a great educational experience. The department awarded its first Ph.D. in 1899. Since then, physics students have earned degrees in virtually every area of physics, and the department's faculty has played key roles in a myriad of important research efforts.

Physics is the science of the properties of matter, radiation, and energy in all forms. As such, it is the most fundamental of the sciences. It provides the underlying framework for the other physical sciences and engineering and for understanding physical processes in biological and environmental sciences.

## CHOOSE TO BE A PHYSICS MAJOR

### WHY STUDY PHYSICS?

- **Intellectual Satisfaction.** First, and foremost, physics satisfies our deep desire to understand how the universe works. Physics is interesting.

- **Intellectual Challenge.** By striving for fundamental understanding, the physicist accepts the challenge to move past a merely descriptive approach of our world and probes deeply into how and why it works.
- **Physics Produces New Technology.** Today's esoteric physics research will become tomorrow's technological advances.
- **Technical Expertise.** Physicists exploit forefront technologies in their pursuits.
- **Flexibility.** In a fast-paced and changing world, it is much more important to have a broad substantive education than to be trained in a specific skill. We teach people how to think, and how to apply and extend what they know to new types of problems.
- **Physics is Analytical and Quantitative.** People who can reason analytically and quantitatively are essential for the success of almost any pursuit.

A degree in physics helps prepare students for employment in industry, research, government, and academia. A bachelor's degree from the undergraduate physics program will provide an overall view of both classical and modern physics along with problem-solving ability and the flexibility to continue learning.

Your education can:

- Prepare you for employment in industrial or governmental laboratories.
- Prepare you for graduate studies for master's or doctoral degrees in experimental or theoretical physics.
- Provide a broad background for further work in other sciences, such as materials sciences, aerospace, astronomy, computer science, geophysics, meteorology, radiology, medicine, biophysics, engineering, and environmental studies.
- Provide a science-oriented liberal education. This training can be useful in some areas of business administration, law, or other fields where a basic knowledge of science is useful.
- Provide part of the preparation you need to teach physics. To teach physics in high school, you will also take education courses to become certified. You will need a doctoral degree to become a college or university professor.

## OTHER PROGRAMS

### AMEP

A program in applied mathematics, engineering and physics (AMEP) (p. 1150) is described in its own section of the *Guide*.

### Astronomy-Physics

Students interested in an astronomy-physcis major should contact the astronomy department (p. 497).

### Education-Physics

A student working toward the Bachelor of Science-Education degree may major or minor in physics. Interested students should contact the School of Education (p. 1543). Upon request, the physics department will assign an advisor.

### Medical Physics

A suggested curriculum for students interested in graduate study in medical physics is available in the medical physics (<https://www.medphysics.wisc.edu/>) department office.

## HOW TO GET IN

### TO DECLARE A PHYSICS MAJOR

Students should discuss declaration with one of the undergraduate advisors (p. 1281) as early as possible and bring a What-If DARS for the Physics major to their meeting.

To be eligible to declare the major, students must have a combined MATH and PHYSICS GPA of at least a 2.500. Eligible students can declare the physics major anytime by completing the department's major declaration form (<https://www.physics.wisc.edu/sites/default/files/Physics%20Declaration%20Form.pdf>) and having it signed by a physics undergraduate advisor.

There are additional steps to declaring Physics as an Additional Major. Section C of the major declaration form (<https://www.physics.wisc.edu/sites/default/files/Physics%20Declaration%20Form.pdf>) has important information about this process. Students should consult the Guide page of their home school or college for more information about declaring an Additional Major in L&S.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of

Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:
 

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:
 

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The physics major requires 35 credits from the following:

Code	Title	Credits
<b>Introductory Physics <sup>1</sup></b>		
<i>First Introductory Course (complete one):<sup>1</sup></i>		5
PHYSICS 247	A Modern Introduction to Physics (recommended)	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>2</sup>	
E M A 201 & M E 240	Statics and Dynamics <sup>2</sup>	
<i>Second Introductory Course (complete one):</i>		5
PHYSICS 248	A Modern Introduction to Physics (recommended)	

PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
<i>Third Introductory Course (complete one):</i>		3-4
PHYSICS 249	A Modern Introduction to Physics (recommended)	
PHYSICS 205	Modern Physics for Engineers (not recommended for majors)	
PHYSICS/ E C E 235	Introduction to Solid State Electronics (not recommended for majors)	
PHYSICS 241	Introduction to Modern Physics	
<b>Intermediate Mechanics</b>		
PHYSICS 311	Mechanics	3
<b>Electromagnetism (complete one):</b>		<b>3-9</b>
PHYSICS 322	Electromagnetic Fields	
E C E 220 & E C E 320 & E C E 420	Electrodynamics I and Electrodynamics II and Electromagnetic Wave Transmission <sup>3</sup>	
<b>Thermal Physics (complete one):</b>		<b>3-6</b>
PHYSICS 415	Thermal Physics <sup>4</sup>	
CHEM 561 & CHEM 562	Physical Chemistry and Physical Chemistry <sup>5</sup>	
M E 361	Thermodynamics	
<b>Quantum Mechanics (complete one):</b>		<b>3-6</b>
PHYSICS 448 & PHYSICS 449	Atomic and Quantum Physics and Atomic and Quantum Physics	
PHYSICS 531	Introduction to Quantum Mechanics	
<b>Laboratory</b>		<b>6</b>
<i>Full registered credit per course:</i>		
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	
PHYSICS 407	Advanced Laboratory	
<i>Two credits apply from each of the following:</i>		
PHYSICS 321	Electric Circuits and Electronics <sup>6</sup>	
PHYSICS 325	Optics <sup>6</sup>	
PHYSICS 623	Electronic Aids to Measurement <sup>6</sup>	
PHYSICS 625	Applied Optics <sup>6</sup>	
N E 427	Nuclear Instrumentation Laboratory <sup>7</sup>	
N E 428	Nuclear Reactor Laboratory <sup>7</sup>	
<i>One credit applies from each of the following:</i>		
E C E 305	Semiconductor Properties Laboratory <sup>7</sup>	
E C E 313	Optoelectronics Lab <sup>7</sup>	
<b>Advanced Physics Electives</b>		<b>0-4</b>
<b>Total Credits</b>		<b>35</b>

**1**

The introductory course sequence consists of three courses: PHYSICS 247/PHYSICS 248/PHYSICS 249 in the honors sequence recommended for prospective physics majors, PHYSICS 201/PHYSICS 202/PHYSICS 205 is recommended for engineers, and PHYSICS 207/PHYSICS 208/PHYSICS 241 is intended for life sciences and chemistry majors, and is a suitable alternative for physics majors. Although the department recommends following one of these sequences, students are allowed to mix them, with the exception that transfers into the PHYSICS 247/PHYSICS 248/PHYSICS 249 honors sequence are not permitted.

**2**

Both courses must be taken and together count 5 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

**3**

All three of E C E 220 and E C E 320 and E C E 420 must be taken, and together count 3 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

**4**

PHYSICS 415 is strongly recommended as the course to satisfy the Thermal Physics Requirement, except for students pursuing additional majors in physics.

**5**

Both courses CHEM 561 and CHEM 562 must be taken and together count 3 credits toward the 35 required for the major. These credits can be counted toward the 35 required for the major only if these courses are used to satisfy this requirement.

**6**

All four credits for each course count toward 35-credit total.

**7**

For non-PHYSICS courses, students will receive only the credit applied as lab toward the 35-credit requirement.

**ADVANCED PHYSICS ELECTIVE COURSES**

Code	Title	Credits
PHYSICS 301	Physics Today (recommended) <sup>8</sup>	1
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	2
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
PHYSICS 322	Electromagnetic Fields	3
PHYSICS 323	Electromagnetic Fields	3
PHYSICS 325	Optics	4
PHYSICS 406	Special Topics in Physics	1-4
PHYSICS 407	Advanced Laboratory	2-4
PHYSICS 415	Thermal Physics	3
PHYSICS 448	Atomic and Quantum Physics	3
PHYSICS 449	Atomic and Quantum Physics	3
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems	3
PHYSICS 498	Directed Study	1-3
PHYSICS 499	Directed Study	1-3

PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiation Physics and Dosimetry	3
PHYSICS/E C E/ N E 525	Introduction to Plasmas	3
PHYSICS/E C E/ N E 527	Plasma Confinement and Heating	3
PHYSICS 531	Introduction to Quantum Mechanics	3
PHYSICS 535	Introduction to Particle Physics	3
PHYSICS 545	Introduction to Atomic Structure	3
PHYSICS/E C E 546	Lasers	2-3
PHYSICS 551	Solid State Physics	3
PHYSICS 623	Electronic Aids to Measurement	4
PHYSICS 625	Applied Optics	4
PHYSICS 681	Senior Honors Thesis	3
PHYSICS 682	Senior Honors Thesis	3
PHYSICS 691	Senior Thesis	2-3
PHYSICS 692	Senior Thesis	2-3

**8**

It is recommended that the student's program include the seminar PHYSICS 301 Physics Today.

## RESIDENCE AND QUALITY OF WORK IN THE MAJOR

- 2.000 GPA in all PHYSICS and all major courses
- 2.000 on at least 15 credits in Upper Level work, taken in residence<sup>9</sup>
- 15 credits in PHYSICS, taken on campus

**9**

Courses that meet the Core and Laboratory requirements, and Advanced level PHYSICS courses, count as upper-level in the major.

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with their major advisor and the Honors Program.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all PHYSICS and all major courses
- 12 credits of Honors PHYSICS courses with grades of B or better, to include:
  - PHYSICS 681 - PHYSICS 682, for a total of 6 credits
  - 3 additional credits of Advanced level PHYSICS for Honors, with a grade of B or better
  - 3 credits at any level in PHYSICS for Honors, with a grade of B or better

## DISTINCTION IN THE MAJOR

Distinction in the Major requires no declaration, and is awarded at the time of graduation. Students may not receive Distinction and Honors in the

same major. To receive Distinction in the Major, students must have met the following requirements and notify a departmental advisor:

- 3.300 University GPA
- 3.300 GPA in all PHYSICS and all major courses
- 6 additional credits in Advanced level PHYSICS beyond the minimum required for the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand basic physical principles.
2. Solve problems proficiently using both quantitative and qualitative applications of these physical principles.
3. Appreciate the excitement of physics and be acquainted with a wide range of research areas in physics.
4. Know how to perform quantitative measurements of physical phenomena and understand the statistical significance of observations made in the presence of statistical and systematic uncertainties.
5. Be prepared for graduate study and/or careers in STEM fields.
6. Communicate effectively with scientific peers and the public, both orally and in writing.
7. Understand their own learning processes and be able to continue to educate themselves after graduation.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to



accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Students should arrange a meeting with a departmental advisor as soon as they are even thinking about a physics major. It is important to get major advising as early as possible.

This is one of many paths through the physics major. For other possibilities and details on math preparation and sequence of courses, see the Advising and Careers page (<https://guide.wisc.edu/undergraduate/letters-science/physics/physics-bs/#advisingandcareerstext>).

### First Year

Fall	Credits	Spring	Credits
PHYSICS 247 (Physics First Introductory Course)		5 PHYSICS 248 (Physics Second Introductory Course)	5
MATH 234		4 MATH 319	3
Communication A		3 MATH 340	3
Foreign Language (if needed)		4 Ethnic Studies	3
	<b>16</b>		<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
PHYSICS 249 (Physics Third Introductory Course)		4 PHYSICS 301	1
PHYSICS 311 (Mechanics)		3 PHYSICS 307 (Laboratory)	2
MATH 321		3 PHYSICS 322	3
Social Science Breadth		3 MATH 322	3
INTER-LS 210		1 Biological Science Breadth	3
		Social Science Breadth	3
	<b>14</b>		<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
PHYSICS 321		4 PHYSICS 407 (Laboratory)	2-4
PHYSICS 448 (Quantum Physics)		3 PHYSICS 415 (Thermal Physics)	3
Communication B		3-4 PHYSICS 449	3
Humanities Breadth		3 Humanities Breadth	3
Social Science Breadth		3 Social Science Breadth	3
	<b>16</b>		<b>14</b>

### Fourth Year

Fall	Credits	Spring	Credits
Literature Breadth		3 Literature Breadth	3
Electives		12 Electives	13
	<b>15</b>		<b>16</b>

**Total Credits 120**

## ADVISING AND CAREERS

### PHYSICS UNDERGRADUATE ADVISORS

**Evan Heintz**

**Professor Tulika Bose**

**Professor Deniz Yavuz**

### SCHEDULING AN ADVISING APPOINTMENT WITH A PHYSICS MAJOR ADVISOR:

To meet with a Physics major advisor, you may either email [physics-advisors@wisc.edu](mailto:physics-advisors@wisc.edu) or contact one of them directly.

### PHYSICS AMEP ADVISORS

**Professor Cary Forest**

**Professor Robert McDermott**

**Professor Thad Walker**

**Professor Deniz Yavuz**

### SCHEDULING AN ADVISING APPOINTMENT WITH AN AMEP ADVISOR:

Applied Math Engineering Physics (AMEP) students may email [AMEP-advisors@wisc.edu](mailto:AMEP-advisors@wisc.edu). If you already have an assigned AMEP advisor in the physics department, please contact them directly.

### ADVISING FOR SOAR STUDENTS

Email [physics-advisors@wisc.edu](mailto:physics-advisors@wisc.edu) or [AMEP-advisors@wisc.edu](mailto:AMEP-advisors@wisc.edu), depending on your interests. Include contact information and your availability.

The Department of Physics encourages our majors to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs. It is important to us that our students are career ready at the time of graduation, and we are committed to your success.

Additional Resources:

- Link to physics department student jobs and research opportunities (<https://www.physics.wisc.edu/academics/undergrads/news/>)

### ADVISORY INFORMATION

#### Mathematics

There are specific math courses listed as prerequisites for our Physics courses. Depending on your interest in math (some Physics majors also major in Math as well), the courses you select may be different. A typical math sequence is: MATH 221, MATH 222, MATH 234, MATH 319, MATH 340, MATH 321, MATH 322. MATH 320 is an alternative course majors may pursue instead of taking both MATH 319 and MATH 340. Please consult with an advisor when choosing your Mathematics courses, particularly before deciding on one of the honors

sequences in Math. We do not recommend the honors sequences for physics majors unless you are considering a second major in Math.

**MATH 221 Calculus and Analytic Geometry 1:** MATH 221 is a prerequisite to PHYSICS 247, PHYSICS 207, and PHYSICS 201.

**MATH 222 Calculus and Analytic Geometry 2:** MATH 222 is also a prerequisite for PHYSICS 247 but can be taken concurrently.

**MATH 234 Calculus--Functions of Several Variables:** MATH 234 is a prerequisite for PHYSICS 248 but can be taken concurrently. It is typically taken to complete the sequence MATH 221/MATH 222/MATH 234.

**MATH 319 Techniques in Ordinary Differential Equations:** Techniques for solving and approximating solutions to ordinary differential equations. You are strongly advised to take MATH 319 and MATH 340, or MATH 320 before PHYSICS 311 Mechanics.

**MATH 340 Elementary Matrix and Linear Algebra:** This course is a bridge between concrete and abstract math. The next step for students interested in more abstract math is MATH 521/MATH 522. MATH 340 is particularly useful for PHYSICS 311 and later for quantum mechanics and we strongly suggest taking it or MATH 320.

**MATH 320 Linear Algebra and Differential Equations:** This course combines topics from MATH 319 and MATH 340. It is adequate for the rest of our undergraduate physics curriculum but is not recommended for those planning on continuing to graduate school. There is an accelerated honors section that thoroughly covers all of the material in MATH 319 and MATH 340. It is more challenging but is a good way to fit in both topics if you are unable to take MATH 319/MATH 340 before you take PHYSICS 311.

**MATH 321 Applied Mathematical Analysis:** Techniques for solving problems in the physical sciences, engineering, and applied mathematics, using advanced calculus and analytic function theory. It is recommended that MATH 321 be taken before taking PHYSICS 322. MATH 321 is highly recommended for physics majors but requires a significant time commitment.

**MATH 322 Applied Mathematical Analysis:** Techniques for solving partial differential equations, with an emphasis on practical problems in the physical sciences. Also covers special functions, Fourier Transformations, etc. MATH 321 and MATH 322 are recommended for those planning to continue on to graduate school in Physics.

## Chemistry

A college course in chemistry is useful for all physics students, but not required.

## Computing

Students should become familiar with scientific programming. The most useful languages are Python followed by C or C++. The computer sciences department offers introductory courses. The Division of Information Technology (DoIT) also offers short courses to introduce programming.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai/>), Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin/>), Eugene P. Wigner Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger/>), Vilas Professor and Van Vleck Professor

Keith Bechtol (<https://www.physics.wisc.edu/people/keithbechtol/>), Assistant Professor

Uwe Bergmann (<http://www.physics.wisc.edu/people/uwebergmann/>), Martin L. Perl Endowed Professor in Ultrafast X-Ray Science

Kevin Black (<https://www.physics.wisc.edu/people/kevinblack/>), Professor, Associate Chair for Graduate Program

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislavboldyrev/>), Professor

Tulika Bose (<https://www.physics.wisc.edu/people/tulikabose/>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar/>), Van Vleck Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith/>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung/>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu/>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal/>), Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson/>), Department Chairperson and John Bardeen Professor of Physics

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett/>), Professor

Ke Fang (<http://www.physics.wisc.edu/people/kefang/>), Assistant Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest/>), Prager Professor of Experimental Physics

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert/>), Vilas Distinguished Achievement Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen/>), Gregory Breit Professor and Hildale Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson/>), Professor, WIPAC Director

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto/>), Professor

Matthew Herndon (<https://www.physics.wisc.edu/people/matthew-fherndon/>), Professor

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Albrecht Karle (<https://www.physics.wisc.edu/people/albrechtkarle/>), Professor, IceCube Associate Director, Science and Instrumentation

Shimon Kolkowitz (<https://www.physics.wisc.edu/people/shimonkolkowitz/>), Assistant Professor

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Alex Levchenko (<https://www.physics.wisc.edu/people/alexlevchenko/>), Professor

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Dan McCammon (<https://www.physics.wisc.edu/people/danmccammon/>), Professor

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Brian Rebel (<https://www.physics.wisc.edu/people/brianrebel/>), Associate Professor

Mark Rzczowski (<https://www.physics.wisc.edu/people/markrzcowski/>), Associate Chairperson and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksauffman/>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff/>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu/>), Professor

Paul Terry (<https://www.physics.wisc.edu/people/paul-wterry/>), Professor

Peter Timbie (<https://www.physics.wisc.edu/people/peter-ttimbie/>), Professor

Justin Vandenbroucke (<https://www.physics.wisc.edu/people/justinvandenbroucke/>), Associate Professor

Maxim Vavilov (<https://www.physics.wisc.edu/people/maxim-gvavilov/>), Professor

Thad Walker (<https://www.physics.wisc.edu/people/thad-gwalker/>), Professor

Sau Lan Wu (<https://www.physics.wisc.edu/people/sau-lanwu/>), Enrico Fermi Professor and Vilas Professor

Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz/>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel/>), William L Kraushaar Professor of Astronomy & Physics

## WISCONSIN EXPERIENCE

### PHYSICS UNDERGRADUATE COLLOQUIUM

There is a weekly series of talks in the spring semester called "Physics Today," at which a topic of local research is described by one of the physics faculty. These are open and may be attended by anyone. They can also be taken as a course, PHYSICS 301 Physics Today. See the Course Guide for location and time.

### THE PHYSICS CLUB

The University Physical Society (UPS)—also known as the Physics Club—is a student organization for people interested in physics and related fields.

#### WHAT DOES THE PHYSICS CLUB DO?

The Physics Club organizes events such as seminars, tours, trips, and socials for its members. Physics Club volunteers also offer free drop-in tutoring to students in introductory physics and astronomy classes. In addition, we maintain subscriptions to science related magazines such as *Scientific American*, *Astronomy*, and *Physics Today*, which are kept in the club's room located at 2328 Chamberlin Hall. Every Friday afternoon, we meet with the physics colloquium speaker to learn about the process of becoming a scientist. In addition, UPS sponsors a variety of other events. For example, in the past, we have taken took a field trip to Fermilab, sponsored a racquetball tournament, and have frequently gathered for social events such as ice skating, movie night, and bowling.

## WHY SHOULD YOU JOIN THE PHYSICS CLUB?

By joining the Physics Club you'll be meeting many physics majors, who are, in general, really cool people to hang out with. If you are thinking about declaring a physics major, this is the place to come for helpful advice about taking classes and finding an undergraduate job in the physics department. If you join, you can get access to the Physics Club room, 2328 Chamberlin Hall. Joining also adds you to the club email list, so you can be notified about club sponsored events.

## PERKS OF BEING A PHYSICS CLUB MEMBER

When you join the Physics Club, you get access to an excellent room, 2328 Chamberlin Hall. This room contains a refrigerator, reference shelves of textbooks, couch, tables, and chairs, a phone, blackboards, and a microwave. We have a several computers in the room. You can get your own key to the room and visit at your leisure, and stay as long as you like. Plus, you get the added bonus of knowing people who are in your classes.

### University Physical Society

2328 Chamberlin Hall

email: ups.officers@gmail.com

### To Join:

Drop by Room 2328 Chamberlin Hall and pick up a membership form. Turn in a completed form with your annual dues to a UPS club officer.

## GENDER MINORITIES AND WOMEN IN PHYSICS

Gender Minorities and Women in Physics (GMAWiP) is a student organization open to undergraduates for the support and promotion of gender minorities and women in physics at UW-Madison. GMAWiP works to provide both professional development and support for women and gender minorities in physics at every step in their careers by taking concrete actions through the following methods:

1. Career Development
2. Mentorship
3. Fellowship
4. Outreach

In addition, they provide advocacy for other minorities in physics, including, but not limited to students of color, students with disability status, low-income students, and LGBT+ students. The group also hosts social events throughout the year aimed at building a sense of community among the members.

## GREAT IDEAS

GMAWiP also hosts a bi-weekly GREAT IDEAS (Group for Reading, Educating, And Talking about Inclusion, Diversity, Equity, & Advocacy in Science) seminar. GREAT IDEAS is a multimedia reading group dedicated to amplifying the experiences of underrepresented groups in science and academia in order to become better advocates for our peers. GREAT IDEAS is open to everyone, and all are welcome and encouraged to engage with the material and contribute to the discussions.

## UNDERGRADUATE MENTORSHIP PROGRAM

GMAWiP also provides a mentorship program for undergraduate students. This program connects the undergraduate with a graduate student who will advise and mentor the undergraduate as they work to obtain their degree. If you are interested in this mentorship program or are interested

in getting involved with GMAWiP, please fill out this contact form ([https://gmawip.physics.wisc.edu/?page\\_id=72](https://gmawip.physics.wisc.edu/?page_id=72)).

## PHYSICS LEARNING CENTER

The Physics Learning Center: Striving to help all students succeed in Physics

- Do you enjoy Physics?
- Are you patient?
- Do you like to teach?
- Would you like to help other undergraduate students?

The Physics Learning Center (PLC) has job opportunities for physics undergraduates as Peer Mentor Tutors (PMT). The PLC is looking for PMTs who have a desire to help others learn physics and have an enthusiasm for learning new ways to solve physics problems.

The PLC provides supplemental instruction and a supportive learning environment to students in large challenging introductory physics courses. They include algebra-based Physics 103-104 and calculus-based 207-208 that are requisites for many STEM majors and pre-health professional pathways. The majority of students in these classes are not physics majors.

PMTs lead a learning team twice a week helping students build a conceptual framework to solve a variety of physics problems. The PLC strives to create a supportive learning environment to help students gain skills, increase confidence, and meet potential study partners.

Peer Mentor Tutors receive extensive training in teaching Physics and in general pedagogy. Tutors meet with a PLC staff member each week to discuss strategies for teaching course content, including how to use teaching materials that stress conceptual understanding. In addition, PMTs from all courses meet as a group for a weekly teaching seminar to discuss issues such as group dynamics, techniques for actively involving students in learning, helping students to prepare for exams, raising awareness of diversity in student experiences, resources on campus, etc.

Our Peer Mentor Tutors report that they greatly enjoy working with their students. In the process, they strengthen their own foundation in Physics and presentation skills. They also tell us that teaching Physics helps to review for the Graduate Record Exam and to prepare for post-graduate teaching in middle/high school or as a University teaching assistant.

PMTs are a mix of students majoring in physics, astrophysics, secondary science education, and engineering as well as from other majors. This is a paid position taking about eight hours per week that includes learning team time, content and pedagogy meetings, reviews before exams, and time to prepare for teaching.

To find out more about the PLC Peer Mentor Tutor Program, please contact us. The PLC is located in Chamberlin 2337/2338.

### Physics Learning Center

2337/2338 Chamberlin Hall

**Contact:** Susan Nossal

nossal@physics.wisc.edu

608-262-9107

## RESOURCES AND SCHOLARSHIPS

The Physics Department is very happy to offer a number of awards for undergraduate and graduate students in physics each year. Many of these awards have been made possible through very generous donations by alumni and friends of the Department.

A list of all the undergraduate and graduate awards can be found on the physics website (<https://www.physics.wisc.edu/department/awards/apply/>).

## APPLICATION PROCESS

### Eligibility

- Must be enrolled as a full-time student at UW-Madison in both semesters of the Academic Year
- Must be a physics major (some awards also include astronomy majors)

Applicants will be judged by the Student Awards Committee. You may apply for a specific award below however the Committee will consider all eligible applications for relevant awards. The Committee will review your transcript.

The call for applications is often sent out near the end of fall semester with the deadline for applications often falling slightly after the beginning of spring semester. The awards decisions will be made by the Awards Committee soon thereafter. Awardees will be notified and asked to attend the Physics Awards Banquet to be held at the end of the spring semester.

## TO APPLY

Once the call for applications has been sent out, each applicant is to submit the following (in PDF) by the deadline via WISH (<https://wisc.academicworks.com/>):

- Resume/CV
- Statement of current research/teaching activity and future plans as a physics major (one page)
- Letter of recommendation from a faculty or staff member (one page)
- On-line application system will automatically prompt letter writer to submit letter
- If indicated below, a statement of need (one page)

### For More information

Please visit the Department of Physics Awards webpage (<https://www.physics.wisc.edu/awards/>) or contact the Department of Physics [info@physics.wisc.edu](mailto:info@physics.wisc.edu)

## PHYSICS, CERTIFICATE

The department offers an undergraduate certificate in physics. An understanding of the physical universe informs many disciplines. The study of physics is essential to understanding nature and to advancing technology in the coming century. A certificate in physics increases the opportunities for students to become better informed on technological issues at the local, state, national, and international levels.

The certificate is designed to serve undergraduates majoring in biology, chemistry, mathematics, engineering, education and other fields who wish to extend their study of physics beyond what may be required or recommended for their major without completing the full L&S physics major requirements.

## HOW TO GET IN

To declare a certificate in physics, students must fill out a major/certificate declaration form. An undergraduate physics advisor must sign the form. The form to declare the certificate can be obtained at the Physics departmental office. All undergraduate students are eligible to declare the certificate, except those declared in the following majors: Physics, Astronomy-Physics, and Applied Mathematics, Engineering, and Physics (AMEP).

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The physics certificate requires 18 credits of Intermediate or Advanced level undergraduate PHYSICS courses, with the following restrictions:

- At least 9 of the credits must be in residence.
- At most one course from each of the three semesters of an introductory sequence can be counted.
- At most 3 credits of directed study can be counted.
- Only graded courses may be used toward the certificate.
- A minimum grade point average of 2.000 is required in all certificate courses.

Code	Title	Credits
<b>First Introductory Course (complete only one):</b>		<b>5</b>
PHYSICS 247	A Modern Introduction to Physics (recommended)	
PHYSICS 207	General Physics	
PHYSICS 201	General Physics	
E M A 201 & E M A 202	Statics and Dynamics <sup>1</sup>	
E M A 201 & M E 240	Statics and Dynamics <sup>1</sup>	
<b>Second Introductory Course (complete only one):</b>		<b>5</b>
PHYSICS 248	A Modern Introduction to Physics (recommended) <sup>2</sup>	
PHYSICS 208	General Physics	
PHYSICS 202	General Physics	
<b>Third Introductory Course (complete only one):</b>		<b>3-4</b>
PHYSICS 249	A Modern Introduction to Physics (recommended) <sup>2</sup>	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	
<b>Directed Study (optional, maximum 3 credits)</b>		<b>0-3</b>
PHYSICS 299	Directed Study	
PHYSICS 499	Directed Study	
PHYSICS 681	Senior Honors Thesis	

PHYSICS 682	Senior Honors Thesis
PHYSICS 691	Senior Thesis
PHYSICS 692	Senior Thesis
<b>Additional Intermediate and Advanced PHYSICS courses</b>	
PHYSICS/ MED PHYS 265	Introduction to Medical Physics
PHYSICS 301	Physics Today
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics
PHYSICS 311	Mechanics
PHYSICS 321	Electric Circuits and Electronics
PHYSICS 322	Electromagnetic Fields
PHYSICS 323	Electromagnetic Fields
PHYSICS 325	Optics
PHYSICS 371	Acoustics for Musicians
PHYSICS 407	Advanced Laboratory
PHYSICS 415	Thermal Physics
PHYSICS 448	Atomic and Quantum Physics
PHYSICS 449	Atomic and Quantum Physics
PHYSICS/ ENVIR ST 472	Scientific Background to Global Environmental Problems
PHYSICS/B M E/ H ONCOL/ MED PHYS 501	Radiation Physics and Dosimetry
PHYSICS/E C E/ N E 525	Introduction to Plasmas
PHYSICS/E C E/ N E 527	Plasma Confinement and Heating
PHYSICS 531	Introduction to Quantum Mechanics
PHYSICS 535	Introduction to Particle Physics
PHYSICS 545	Introduction to Atomic Structure
PHYSICS/ E C E 546	Lasers
PHYSICS 551	Solid State Physics
PHYSICS/B M E/ MED PHYS/ PHMCOL-M/ RADIOL 619	Microscopy of Life
PHYSICS 623	Electronic Aids to Measurement
PHYSICS 625	Applied Optics

**Total Credits** **18**

**1**

A maximum of 5 credits from E M A 201, E M A 202 and M E 240 count toward the 18 credits required for the certificate.

**2**

Students may not transfer into the PHYSICS 247 - PHYSICS 248 - PHYSICS 249 sequence from another introductory sequence.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Understand basic physical principles.
2. Solve problems proficiently using both quantitative and qualitative applications of these physical principles.
3. Know how to perform quantitative measurements of physical phenomena and understand the statistical significance of observations made in the presence of statistical and systematic uncertainties.
4. Be prepared for graduate study and/or careers in STEM fields.
5. Communicate effectively with scientific peers and the public, both orally and in writing.

## ADVISING AND CAREERS

### PHYSICS UNDERGRADUATE ADVISORS

**Professor Tulika Bose**  
**Professor Jan Egedal**  
**Professor Deniz Yavuz**

### SCHEDULING AN ADVISING APPOINTMENT WITH A PHYSICS MAJOR ADVISOR:

To meet with a Physics major advisor, you may either email physics-advisors@wisc.edu or contact them directly.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)

- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY

Yang Bai (<https://www.physics.wisc.edu/people/yangbai/>), Professor

Baha Balantekin (<https://www.physics.wisc.edu/people/bahabalantekin/>), Eugene P. Wigner Professor

Vernon Barger (<https://www.physics.wisc.edu/people/vernon-dbarger/>), Vilas Professor and Van Vleck Professor

Keith Bechtol (<https://www.physics.wisc.edu/people/keithbechtol/>), Assistant Professor

Uwe Bergmann (<http://www.physics.wisc.edu/people/uwebergmann/>), Martin L. Perl Endowed Professor in Ultrafast X-Ray Science

Kevin Black (<https://www.physics.wisc.edu/people/kevinblack/>), Professor, Associate Chair for Graduate Program

Stas Boldyrev (<https://www.physics.wisc.edu/people/stanislavboldyrev/>), Professor

Tulika Bose (<https://www.physics.wisc.edu/people/tulikabose/>), Professor

Victor Brar (<https://www.physics.wisc.edu/people/victorbrar/>), Van Vleck Assistant Professor

Duncan Carlsmith (<https://www.physics.wisc.edu/people/duncancarlsmith/>), Professor

Daniel Chung (<https://www.physics.wisc.edu/people/daniel-jchung/>), Professor

Sridhara Dasu (<https://www.physics.wisc.edu/people/sridharadasu/>), Professor

Jan Egedal (<https://www.physics.wisc.edu/people/janegedal/>), Professor

Mark Eriksson (<https://www.physics.wisc.edu/people/mark Eriksson/>), Department Chairperson and John Bardeen Professor of Physics

Lisa Everett (<https://www.physics.wisc.edu/people/lisa-leverett/>), Professor

Ke Fang (<http://www.physics.wisc.edu/people/kefang/>), Assistant Professor

Cary Forest (<https://www.physics.wisc.edu/people/cary-bforest/>), Prager Professor of Experimental Physics

Pupa Gilbert (<https://www.physics.wisc.edu/people/pupagilbert/>), Vilas Distinguished Achievement Professor

Francis Halzen (<https://www.physics.wisc.edu/people/francis-lhalzen/>), Gregory Breit Professor and Hilldale Professor

Kael Hanson (<https://www.physics.wisc.edu/people/kael-dhanson/>), Professor, WIPAC Director

Aki Hashimoto (<https://www.physics.wisc.edu/people/akihashimoto/>), Professor

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Brian Rebel (<https://www.physics.wisc.edu/people/brianrebel/>), Associate Professor

Mark Rzczowski (<https://www.physics.wisc.edu/people/markrzcowski/>), Associate Chairperson and Professor

Mark Saffman (<https://www.physics.wisc.edu/people/marksaffman/>), Professor

John Sarff (<https://www.physics.wisc.edu/people/john-ssarff/>), Professor

Gary Shiu (<https://www.physics.wisc.edu/people/garyshiu/>), Professor

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Peter Timbie (<https://www.physics.wisc.edu/people/peter-ttimbie/>), Professor

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Deniz Yavuz (<https://www.physics.wisc.edu/people/denizyavuz/>), Professor

Ellen Zweibel (<https://www.physics.wisc.edu/people/ellen-gzweibel/>), William L Kraushaar Professor of Astronomy & Physics

Tori Cooper, Financial Specialist-Senior; Kelsey Hughes, Department Administrator; Rob De Roos, IT Support Specialist; Alfonso Morales, Chair

For more contact information please go to:

<https://dpla.wisc.edu/facstaff/faculty> (<https://dpla.wisc.edu/facstaff/faculty/>)

## PLANNING AND LANDSCAPE ARCHITECTURE

The Department of Planning and Landscape Architecture offers two undergraduate programs. One is a professional landscape design and planning program, fully accredited by the American Society of Landscape Architects, and leads to the Bachelor of Landscape Architecture special degree within the College of Letters & Science. The other program introduces the field of landscape studies and leads to either a Bachelor of Arts or a Bachelor of Science degree with a major in Landscape and Urban Studies.

### DEGREES/MAJORS/CERTIFICATES

- Integrative Design of Built and Natural Environments, Certificate (p. 1296)
- Landscape and Urban Studies, B.A. (p. 1298)
- Landscape and Urban Studies, B.S. (p. 1303)
- Landscape Architecture, BLA (p. 1308)

### PEOPLE

#### FACULTY

##### Landscape Architecture

David Bart, Professor; Jacob Blue, Associate Lecturer; Ed Bosewell, Assistant Faculty Associate; Samuel Dennis Jr, Professor; Doug Hadley, Senior Lecturer; Professor; Evelyn A. Howell, Professor; Shawn T. Kelly, Distinguished Faculty Associate; James LaGro, Jr, Professor; Eric Schuchardt, Associate Faculty Associate; James Steiner, Senior Lecturer

##### Urban and Regional Planning

Ken Genskow, Professor; James LaGro, Jr, Professor; Edna Ledesma, Assistant Professor; Dave Marcouiller, Professor; Alfonso Morales, Chair and Professor; Brian W. Ohm, Professor; Kurt Paulsen, Associate Professor; Revel Sims, Assistant Professor

#### ACADEMIC ADVISING

Deborah Griffin, Undergraduate Academic Advising Manager

Amy Rivera, Graduate Academic Advising Manager

#### ADMINISTRATIVE STAFF

## INTEGRATIVE DESIGN OF BUILT AND NATURAL ENVIRONMENTS, CERTIFICATE

The Certificate in Integrative Design of Built and Natural Environments, offered through the Department of Planning and Landscape Architecture, is focused around an exciting trans-disciplinary design approach that relies on design processes and thinking and integrates spatial data technologies to effectively and efficiently inventory, represent, analyze, evaluate, and communicate planning and design alternatives for landscapes, cities, and regions. Proactively co-designing and co-producing healthy places comprehends, plans, and acts on social and environmental information and, therefore, a diverse suite of elective courses addresses social and environmental considerations through stakeholder engagement, environmental justice, policy, conservation, and management. Required courses will apply spatial technologies (GIS, Geodesign) to enable collaborations among the design professions (landscape architects, planners, engineers, and scientists and humanists from various disciplines), and community members. This collaborative process will help prepare you to work in interdisciplinary teams and to appreciate diverse perspectives and values while addressing complex problems.

### HOW TO GET IN

Undergraduate students from across campus are encouraged to consider completing the Certificate. To declare the Certificate in Integrative Design of Built and Natural Environments through the Department of Planning and Landscape Architecture, students must have completed at least one class that meets Certificate requirements, or be enrolled in at least one class in the current or upcoming semester that meets Certificate requirements. Students pursuing the program are encouraged to declare as early as possible so that they can best align the coursework with their interests. Students can declare the program by scheduling an appointment with the Department of Planning and Landscape Architecture Undergraduate Academic Advising Manager, or by filling out the online declaration form on the Department of Planning and Landscape Architecture website.

Students declared in the certificate should plan to complete the program before, or alongside, their degree and major requirements, as they are not able to extend their time on campus to complete a certificate.



## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Students are required to a minimum of 14 credits to include one introductory course, one methods and applications course, and elective courses.

Code	Title	Credits
<b>Introductory Course (complete one)</b>		<b>2-4</b>
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	
GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
<b>Methods and Applications</b>		<b>3</b>
LAND ARC 511	Geodesign Methods and Applications	
<b>Elective Courses</b>		<b>7-9</b>
<i>Stakeholder Engagement</i>		
LSC/ AMER IND 444	Native American Environmental Issues and the Media	
LSC 561	Writing Science for the Public	
LSC 625	Risk Communication	
LSC 250	Research Methods in the Communication Industry	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
<i>Environmental Justice and Policy</i>		
LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience	
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	
CHICLA/ LEGAL ST/ SOC 440	Ethnicity, Race, and Justice	
CHICLA/ LAND ARC 475	Latino Urbanism: Design and Engagement in the American City	
ENVIR ST 308	Outdoors For All: Inequities in Environmentalism	
GEOG/ URB R PL 305	Introduction to the City	
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	
GEOG/ ENVIR ST 537	Culture and Environment	

SOC/ C&E SOC 140	Introduction to Community and Environmental Sociology
URB R PL 512	Gentrification and Urban Restructuring

#### *Environmental Conservation & Management*

LAND ARC 668	Restoration Ecology
LAND ARC/ ENVIR ST/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources
A A E/ENVIR ST/ F&W ECOL 652	Decision Methods for Natural Resource Managers
BOTANY/ ENVIR ST/ F&W ECOL/ ZOOLOGY 651	Conservation Biology

C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society
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C&E SOC/ ENVIR ST/ GEOG 434	People, Wildlife and Landscapes
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ENVIR ST/ GEOG 339	Environmental Conservation
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ENVIR ST 413	Preserving Nature
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GEOG/ ENVIR ST 333	Green Urbanism
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GEOG/ ENVIR ST 337	Nature, Power and Society
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GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges
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GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
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GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development
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**Total Credits** **14**

### PASS/FAIL COURSES

Courses taken on a pass/fail basis will not count toward the certificate.

### RESIDENCE AND QUALITY OF WORK

- At least 8 certificate credits must be completed in residence
- Minimum 3.000 GPA on all certificate courses

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate an understanding of the frameworks and processes involved in integrative design of built and natural environments

2. Understand and demonstrate how to use techniques and research from biological, physical sciences, and social sciences in design, planning, and management contexts to create frameworks and designs
3. Select and evaluate geospatial technologies appropriate for a variety of design, planning, and management contexts
4. Understand and evaluate the role of stakeholder values and ethics in design frameworks relative to design, planning, and management of the built environment within social and natural systems

## ADVISING AND CAREERS

### ADVISING

We encourage you to reach out to Debi Griffin, our undergraduate academic advising manager, if you're interested in learning more about the Certificate or would like guidance as a current Certificate student. You can make an appointment via Starfish (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html>) or email Debi ([dagriffin@wisc.edu](mailto:dagriffin@wisc.edu))

### CAREERS

The interdisciplinary education provided through the Certificate in Integrative Design of the Built and Natural Environment will make graduates highly sought after by employers in local government, landscape and urban design, environmental science, management, and policy.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students

- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## LANDSCAPE AND URBAN STUDIES, B.A.

Are you interested in climate justice? Are you interested in inclusive economic development and social justice? Do you want to preserve the beauty in cities and create ecologically sustainable cities? Those are some of the goals you can learn to achieve when you major Landscape and Urban Studies. You will learn to integrate the biological, physical, and social sciences; humanities; arts; and technology to develop the skills that will help you play an important role in creating a more inclusive and sustainable future.

The major provides students opportunities to specialize in several directions: Culture, Health and Community; Restoration and Ecological Design; and Urban Studies. The major also provides students opportunities to explore the design and planning professions. Students who graduate from the major are prepared for starting positions in public or private agencies that oversee conservation, land management, cultural landscape conservation, and planning or for continuing on to graduate school, in particular, professionally accredited programs in Landscape Architecture, Planning, or Environmental Studies. This is the major for people who care about the natural world and human creation by understanding cultural and natural resource protection, green infrastructure, social equity, and policy, and more.

### HOW TO GET IN

Students who intend to declare their major in Landscape and Urban Studies are encouraged to schedule an appointment with the Undergraduate Advisor in the Department of Planning and Landscape Architecture.

Students who attend SOAR (Student Orientation, Advising, and Registration) session with the College of Letters and Science have the option to declare this major at SOAR. Students may otherwise declare after they have begun their undergraduate studies.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework Complete at least 108 credits.

Depth of Intermediate/Advanced work Complete at least 60 credits at the intermediate or advanced level.

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Experience

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

Quality of Work

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students interested in the major are required to complete a set of introductory courses, breadth in the major under three categories: Biological and Physical Environment, Social and Cultural Studies and Technology and 15 credits of electives (see an Advisor and the Advising tab for recommended focused elective sets).

Landscape and Urban Studies majors must complete at least 48 credits in the major, including the following:

### INTRODUCTORY COURSES

Code	Title	Credits
LAND ARC 211	Shaping the Built Environment	3
URB R PL 215	Welcome to Your Urban Future	3
LAND ARC 250	Survey of Landscape Architecture Design	3
LAND ARC 260	History of Landscape Architecture	3
<b>Total Credits</b>		<b>12</b>

### BIOLOGICAL AND PHYSICAL ENVIRONMENT

Code	Title	Credits
<b>Complete two courses from:</b>		
BOTANY 100 or BOTANY/ BIOLOGY 130	Survey of Botany General Botany	6-9
BOTANY/ ENVIR ST/ ZOOLOGY 260 or BOTANY/ F&W ECOL/ ZOOLOGY 460	Introductory Ecology General Ecology	
BOTANY/ GEOG 338	Environmental Biogeography	6-9
GEOG/ ENVIR ST 339	Environmental Conservation	
SOIL SCI/ ENVIR ST/ GEOG 230 or SOIL SCI 301	Soil: Ecosystem and Resource General Soil Science	6-9
<b>Total Credits</b>		

### SOCIAL AND CULTURAL STUDIES

Code	Title	Credits
<b>Complete two courses from:</b>		
ART HIST 457	History of American Vernacular Architecture and Landscapes	6-7
DS 221	Person and Environment Interactions	
ECON 101	Principles of Microeconomics	

or ECON 111	Principles of Economics--Accelerated Treatment
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
GEOG 104	Introduction to Human Geography
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
HISTORY/ ENVIR ST/ GEOG 460	American Environmental History
LAND ARC/ ANTHRO/ ART HIST/DS/ HISTORY 264	Dimensions of Material Culture
LAND ARC/ CHICLA 475	Latino Urbanism: Design and Engagement in the American City
LAND ARC 525	Social Justice and the Urban Landscape
POLI SCI 104	Introduction to American Politics and Government
SOC/ C&E SOC 140	Introduction to Community and Environmental Sociology
URB R PL/ECON/ REAL EST 420	Urban and Regional Economics
URB R PL/ LAND ARC 463	Evolution of American Planning
PUB AFFR 240	Evidence-Based Policy Making
PUB AFFR 380	Analytic Tools for Public Policy
<b>Total Credits</b>	<b>6-7</b>

## TECHNOLOGY

Code	Title	Credits
<b>Complete two courses from:</b>		
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	<b>6-8</b>
or GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	
LAND ARC 460	Advanced Visual Communication in Landscape Architecture	
LAND ARC/ ENVIR ST/GEOG/ URB R PL 532	Applications of Geographic Information Systems in Planning	
LAND ARC/ ENVIR ST/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	
<b>Total Credits</b>		<b>6-8</b>

## CAPSTONE

Code	Title	Credits
<b>Complete one course from:</b>		
LAND ARC 525	Social Justice and the Urban Landscape	<b>3</b>
LAND ARC 677	Cultural Resource Preservation and Landscape History	

LAND ARC 668	Restoration Ecology
URB R PL 601	Site Planning
URB R PL 611	Urban Design: Theory and Practice

**Total Credits** **3**

## ELECTIVES <sup>1</sup>

Code	Title	Credits
<b>15 credits, chosen from:</b>		
AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology	<b>15</b>
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	
or AMER IND 250	Indians of Wisconsin	
or AMER IND/ ANTHRO/ FOLKLORE 431	American Indian Folklore	
or AMER IND/ LSC 444	Native American Environmental Issues and the Media	
or AMER IND/ C&E SOC/ SOC 578	Poverty and Place	
ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany	
ART HIST 457	History of American Vernacular Architecture and Landscapes	
or ART HIST/ ANTHRO/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture	
BOTANY 400	Plant Systematics	
or BOTANY 401	Vascular Flora of Wisconsin	
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	
DS 221	Person and Environment Interactions	
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	
ENVIR ST/ BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	
or GEOG 501	Space and Place: A Geography of Experience	
or GEOG/ URB R PL 305	Introduction to the City	
or GEOG/ C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	
or GEOG 301	Revolutions and Social Change	
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	

GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ URB R PL 506	Historical Geography of European Urbanization
FOLKLORE 439	Foodways
or FOLKLORE 540	Local Culture and Identity in the Upper Midwest
LAND ARC 210	Introduction to Landscape Architecture Design
LAND ARC 321	Environment and Behavior Studio - Designing Health Promoting Environments
LAND ARC/ ENVIR ST 361	Wetlands Ecology
LAND ARC/ CHICLA 475	Latino Urbanism: Design and Engagement in the American City
LAND ARC 525	Social Justice and the Urban Landscape
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation
LAND ARC 668	Restoration Ecology
LAND ARC 677	Cultural Resource Preservation and Landscape History
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process
REAL EST/ECON/ URB R PL 420	Urban and Regional Economics
SOIL SCI/ PL PATH 323	Soil Biology
URB R PL 411	Marketplaces and Entrepreneurship
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources
URB R PL 512	Gentrification and Urban Restructuring
URB R PL 550	Transportation and the Built Environment
URB R PL 551	Climate Action Planning: Sustainable Transportation
URB R PL 601	Site Planning
URB R PL 611	Urban Design: Theory and Practice
URB R PL/ C&E SOC/ SOC 617	Community Development

**Total Credits** **15**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all LAND ARC and URB R PL courses and courses that count toward the major
- 2.000 GPA on 15 upper-level credits, taken in Residence
- 15 combined credits in LAND ARC and URB PL , taken on the UW-Madison campus

1

See an Advisor and the Advising tab for recommended focused elective sets

2

Intermediate and Advanced level courses accepted in the major are Upper Level

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate competence and critical judgment in creatively applying the intellectual and technical skills necessary for site and landscape-scale natural and cultural resource conservation, planning, and management; these skills include cultural, historical and landscape literacy, data collection and analysis, spatial and temporal analysis, multidisciplinary problem-solving approaches and communication skills.
2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.
3. Understand, apply and evaluate the principles, theories and research findings underlying at least one of the following advising pathways, Ecological Restoration and Design; Culture, Health, and Community; and Urban Studies.
4. Integrate social, cultural, ecological and technological dimensions in solving design and planning problems concerning the conservation or management of sustainable natural and cultural landscapes.
5. Be able to perform as a member of a public, private or non-profits office or agency in the fields represented within the department.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
LAND ARC 250	3	LAND ARC 211	3
Communications A	3	URB R PL 215	3
Quantitative Reasoning A	3	Biological or Physical Environment (major requirement)	4
Foreign Language (if required)	4	Ethnic Studies (complete within your first 60 credits)	3
Physical Science Breadth	3	Quantitative Reasoning B	3
<b>16</b>		<b>16</b>	

### Second Year

Fall	Credits	Spring	Credits
Major Elective	3	LAND ARC 260	3
Communications B	3	Biological and Physical Environment (major requirement)	3
Social and Cultural Studies (major requirement)	3	Social and Cultural Studies (major requirement)	3
Literature Breadth	3	Literature Breadth	3
INTER-LS 210	1	Electives	3
Elective	3		
<b>16</b>		<b>15</b>	

### Third Year

Fall	Credits	Spring	Credits
Technology (major requirement)	3	Technology (major requirement)	3
Biological and Physical Environment (major requirement)	3	Biological and Physical Environment (major requirement)	3
Major elective	3	Major elective	3
L&S electives	6	L&S electives	6
<b>15</b>		<b>15</b>	

### Fourth Year

Fall	Credits	Spring	Credits
L&S elective	9	Capstone (major requirement)	3
Major elective	6	Electives	9
<b>15</b>		<b>12</b>	

**Total Credits 120**

## ADVISING AND CAREERS

Students enrolled in the major Landscape and Urban Studies have three opportunities for advising:

1. Our undergraduate coordinator (<https://dpla.wisc.edu/staff/debi-griffin/>) can assist with general questions about registration, student assistance, and progress in meeting major requirements.

2. All students entering the program may choose a faculty advisor (see People/Instructors) to assist with guidance specific to the curriculum (e.g. coursework, internships, research) and career opportunities.
3. The College of Letters & Science offers advice on career paths, networking, and job search preparation (see below).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### Instructors

Professors: David Bart, Sam Dennis Jr., Ken Genskow, Evelyn Howell, James LaGro, Dave Marcouiller, Alfonso Morales, Brian Ohm, Kurt Paulsen

Associate Professor: Carey McAndrews

Assistant Professors: Edna Ledesma, Revel Sims

Distinguished Faculty Associate: Shawn Kelly

Faculty Associate: Eric Schuchardt

Assistant Faculty Associate: Edward Bosewell

Senior Lecturers: Doug Hadley, James Steiner

Lecturers: Jacob Blue, Nathan Larson

### Earth Partnership Program

Director: Cheryl Bauer Armstrong

Outreach Specialists: Claire Bjork, Maria Moreno

### Academic Advising

Undergraduate Academic Advising Manager: Deborah Griffin

### Administrative Staff

Department Administrator:

Financial Specialist: Tori Cooper

IT Support Specialist: Rob De Roos

Department Chair: Alfonso Morales

## WISCONSIN EXPERIENCE

The Wisconsin Experience combines learning in and out of the classroom, helping students develop intellectual and personal growth. The Landscape and Urban Studies major mixes traditional learning with community-based learning in and out of the classroom. Students are encouraged to take opportunities that supplement classroom learning by engaging in research, study abroad, internships, student clubs, and community interactions. The major engages students in exploring people-place, culture-nature phenomena and how they might, in their professional and personal lives, apply continuous learning to the planning of environments that benefit people, cultures, and the environment at the local, state, national, and global levels.

## RESOURCES AND SCHOLARSHIPS

### Wisconsin Scholarship Hub (WiSH)

This scholarship (<http://scholarships.wisc.edu/Scholarships/schlrdetails/?schold=4101>) provides amounts ranging from \$2,000 to \$5,000 each to help students participate in a first-time internship opportunity that is unpaid or provides a limited stipend.

### HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP

The Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 97–100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

### HOLSTROM ENVIRONMENTAL SCHOLARSHIPS

The Holstrom Environmental Scholarships (<https://go.wisc.edu/55ox41/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least junior standing at time of application.

### UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity,

achievement, research, service-learning and community-based research from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences.

### UNDERGRADUATE RESEARCH SCHOLARS

The Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>) program (URS) is dedicated to enhancing the academic experience of UW–Madison students by providing first- and second-year undergraduates with opportunities to earn credit for participating in the research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities.

### WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working towards solving a challenge identified along with local or global community partner. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## LANDSCAPE AND URBAN STUDIES, B.S.

Are you interested in climate justice? Are you interested in inclusive economic development and social justice? Do you want to preserve the beauty in cities and create ecologically sustainable cities? Those are some of the goals you can learn to achieve when you major Landscape and Urban Studies. You will learn to integrate the biological, physical, and social sciences; humanities; arts; and technology to develop the skills that will help you play an important role in creating a more inclusive and sustainable future.

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## HOW TO GET IN

Students who intend to declare their major in Landscape and Urban Studies are encouraged to schedule an appointment with the Undergraduate Advisor in the Department of Planning and Landscape Architecture.

Students who attend SOAR (Student Orientation, Advising, and Registration) session with the College of Letters and Science have the





GEOG/ ENVIR ST 339	Environmental Conservation
SOIL SCI/ ENVIR ST/ GEOG 230	Soil: Ecosystem and Resource
or SOIL SCI 301 General Soil Science	
<b>Total Credits</b>	<b>6-9</b>

**SOCIAL AND CULTURAL STUDIES**

Code	Title	Credits
<b>Complete two courses from:</b>		
<b>6-7</b>		

ART HIST 457	History of American Vernacular Architecture and Landscapes
DS 221	Person and Environment Interactions
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics--Accelerated Treatment
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
GEOG 104	Introduction to Human Geography
GEOG/ ENVIR ST 139	Global Environmental Issues
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape
HISTORY/ ENVIR ST/ GEOG 460	American Environmental History
LAND ARC/ ANTHRO/ ART HIST/DS/ HISTORY 264	Dimensions of Material Culture
LAND ARC/ CHICLA 475	Latino Urbanism: Design and Engagement in the American City
LAND ARC 525	Social Justice and the Urban Landscape
POLI SCI 104	Introduction to American Politics and Government
SOC/ C&E SOC 140	Introduction to Community and Environmental Sociology
URB R PL/ECON/ REAL EST 420	Urban and Regional Economics
URB R PL/ LAND ARC 463	Evolution of American Planning
PUB AFFR 240	Evidence-Based Policy Making
PUB AFFR 380	Analytic Tools for Public Policy
<b>Total Credits</b>	<b>6-7</b>

**TECHNOLOGY**

Code	Title	Credits
<b>Complete two courses from:</b>		
<b>6-8</b>		

LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies
or GEOG/ CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems

LAND ARC 460	Advanced Visual Communication in Landscape Architecture
LAND ARC/ ENVIR ST/GEOG/ URB R PL 532	Applications of Geographic Information Systems in Planning
LAND ARC/ ENVIR ST/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources
<b>Total Credits</b>	<b>6-8</b>

**CAPSTONE**

Code	Title	Credits
<b>Complete one course from:</b>		
<b>3</b>		

LAND ARC 525	Social Justice and the Urban Landscape
LAND ARC 677	Cultural Resource Preservation and Landscape History
LAND ARC 668	Restoration Ecology
URB R PL 601	Site Planning
URB R PL 611	Urban Design: Theory and Practice
<b>Total Credits</b>	<b>3</b>

**ELECTIVES <sup>1</sup>**

Code	Title	Credits
<b>15 credits, chosen from:</b>		
<b>15</b>		

AGRONOMY/ BOTANY/ SOIL SCI 370	Grassland Ecology
ANTHRO/ AMER IND 354	Archaeology of Wisconsin
or AMER IND 250	Indians of Wisconsin
or AMER IND/ ANTHRO/ FOLKLORE 431	American Indian Folklore
or AMER IND/ LSC 444	Native American Environmental Issues and the Media
or AMER IND/ C&E SOC/ SOC 578	Poverty and Place
ANTHRO/ AMER IND/ BOTANY 474	Ethnobotany
ART HIST 457	History of American Vernacular Architecture and Landscapes
or ART HIST/ ANTHRO/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture
BOTANY 400	Plant Systematics
or BOTANY 401	Vascular Flora of Wisconsin
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin
DS 221	Person and Environment Interactions

ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species
ENVIR ST/ BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems
or GEOG 501	Space and Place: A Geography of Experience
or GEOG/ URB R PL 305	Introduction to the City
or GEOG/ C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes
or GEOG 301	Revolutions and Social Change
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation
GEOG/ENVIR ST/ HISTORY 460	American Environmental History
GEOG/ URB R PL 506	Historical Geography of European Urbanization
FOLKLORE 439	Foodways
or FOLKLORE 540	Local Culture and Identity in the Upper Midwest
LAND ARC 210	Introduction to Landscape Architecture Design
LAND ARC 321	Environment and Behavior Studio - Designing Health Promoting Environments
LAND ARC/ ENVIR ST 361	Wetlands Ecology
LAND ARC/ CHICLA 475	Latino Urbanism: Design and Engagement in the American City
LAND ARC 525	Social Justice and the Urban Landscape
LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation
LAND ARC 668	Restoration Ecology
LAND ARC 677	Cultural Resource Preservation and Landscape History
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process
REAL EST/ECON/ URB R PL 420	Urban and Regional Economics
SOIL SCI/ PL PATH 323	Soil Biology
URB R PL 411	Marketplaces and Entrepreneurship
URB R PL/ ECON/ENVIR ST/ POLI SCI 449	Government and Natural Resources
URB R PL 512	Gentrification and Urban Restructuring
URB R PL 550	Transportation and the Built Environment

URB R PL 551	Climate Action Planning: Sustainable Transportation
URB R PL 601	Site Planning
URB R PL 611	Urban Design: Theory and Practice
URB R PL/ C&E SOC/ SOC 617	Community Development
<b>Total Credits</b>	<b>15</b>

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all LAND ARC and URB R PL courses and courses that count toward the major
- 2.000 GPA on 15 upper-level credits, taken in Residence
- 15 combined credits in LAND ARC and URB PL , taken on the UW-Madison campus

1

See an Advisor and the Advising tab for recommended focused elective sets

2

Intermediate and Advanced level courses accepted in the major are Upper Level

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate competence and critical judgment in creatively applying the intellectual and technical skills necessary for site and landscape-scale natural and cultural resource conservation, planning, and management; these skills include cultural, historical and landscape literacy, data collection and analysis, spatial and temporal analysis, multidisciplinary problem-solving approaches and communication skills.
2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.

- Understand, apply and evaluate the principles, theories and research findings underlying at least one of the following advising pathways, Ecological Restoration and Design; Culture, Health, and Community; and Urban Studies.
- Integrate social, cultural, ecological and technological dimensions in solving design and planning problems concerning the conservation or management of sustainable natural and cultural landscapes.
- Be able to perform as a member of a public, private or non-profits office or agency in the fields represented within the department.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
LAND ARC 250	3	LAND ARC 211	3
Communications A	3	URB R PL 215	3
Quantitative Reasoning A	3	Biological or Physical Environment (major requirement)	4
Foreign Language (if required)	4	Ethnic Studies (complete within your first 60 credits)	3
Physical Science Breadth	3	Quantitative Reasoning B	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
Major Elective	3	LAND ARC 260	3
Communications B	3	Biological and Physical Environment (major requirement)	3
Social and Cultural Studies (major requirement)	3	Social and Cultural Studies (major requirement)	3
Literature Breadth	3	Literature Breadth	3
INTER-LS 210	1	Electives	3
Elective	3		
	<b>16</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Technology (major requirement)	3	Technology (major requirement)	3
Biological and Physical Environment (major requirement)	3	Biological and Physical Environment (major requirement)	3

Major elective	3	Major elective	3
L&S electives	6	L&S electives	6
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
L&S elective	9	Capstone (major requirement)	3
Major elective	6	Electives	9
	<b>15</b>		<b>12</b>

**Total Credits 120**

### ADVISING AND CAREERS

Students enrolled in the major Landscape and Urban Studies have 3 opportunities for advising:

- Our undergraduate coordinator (<https://dpla.wisc.edu/staff/debi-griffin/>) can assist with general questions about registration, student assistance and progress in meeting major requirements.
- All students entering the program may choose a faculty advisor (see People/Instructors) to assist with guidance specific to the curriculum (e.g. coursework, internships, research) and career opportunities.
- The College of Letters and Science offers advice on career paths, networking, and job search preparation (see below).

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) – a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### Instructors

Professors: David Bart, Sam Dennis Jr., Ken Genskow, Evelyn Howell, James LaGro, Dave Marcouiller, Alfonso Morales, Brian Ohm, Kurt Paulsen

Associate Professor: Carey McAndrews

Assistant Professors: Edna Ledesma, Revel Sims

Distinguished Faculty Associate: Shawn Kelly

Faculty Associate: Eric Schuchardt

Assistant Faculty Associate: Edward Bosewell

Senior Lecturers: Doug Hadley, James Steiner

Lecturers: Jacob Blue, Nathan Larson

### Earth Partnership Program

Director: Cheryl Bauer Armstrong

Outreach Specialists: Claire Bjork, Maria Moreno

### Academic Advising

Undergraduate Academic Advising Manager: Deborah Griffin

### Administrative Staff

Department Administrator:

Financial Specialist: Tori Cooper

IT Support Specialist: Rob De Roos

Department Chair: Alfonso Morales

## WISCONSIN EXPERIENCE

The Wisconsin Experience combines learning in and out of the classroom, helping students develop intellectual and personal growth. The Landscape and Urban Studies major mixes traditional learning with community-based learning in and out of the classroom. Students are encouraged to take opportunities that supplement classroom learning by engaging in research, study abroad, internships, student clubs, and community interactions.

The major engages students in exploring people-place, culture-nature phenomena and how they might, in their professional and personal lives, apply continuous learning to the planning of environments that benefit people, cultures, and the environment at the local, state, national, and global levels.

## RESOURCES AND SCHOLARSHIPS

### Wisconsin Scholarship Hub (WiSH)

This scholarship (<http://scholarships.wisc.edu/Scholarships/schlrdetails/?schold=4101>) provides amounts ranging from \$2,000 to \$5,000 each to help students participate in a first-time internship opportunity that is unpaid or provides a limited stipend.

### HILLDALE UNDERGRADUATE/FACULTY RESEARCH FELLOWSHIP

The Hilldale Undergraduate/Faculty Research Fellowships (<https://awards.advising.wisc.edu/all-scholarships/hilldale-undergraduatefaculty-research-fellowship/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Approximately 97–100 Hilldale awards are available each year. The student researcher receives \$3,000, and faculty/staff research advisor receives \$1,000 to help offset research costs (e.g., supplies, faculty or student travel related to the project).

### HOLSTROM ENVIRONMENTAL SCHOLARSHIPS

The Holstrom Environmental Scholarships (<https://go.wisc.edu/55ox41/>) support undergraduate research done in collaboration with UW–Madison faculty or research/instructional academic staff. Research proposals must have an environmental focus, and applicants must have at least a junior standing at time of application.

### UNDERGRADUATE SYMPOSIUM

The annual Undergraduate Symposium (<https://ugradsymposium.wisc.edu/>) showcases undergraduate creativity, achievement, research, service-learning, and community-based research from all areas of study at UW–Madison including the humanities, fine arts, biological sciences, physical sciences, and social sciences.

### UNDERGRADUATE RESEARCH SCHOLARS

The Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>) program (URS) is dedicated to enhancing the academic experience of UW–Madison students by providing first- and second-year undergraduates with opportunities to earn credit for participating in the research and creative work with UW–Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities.

### WISCONSIN IDEA FELLOWSHIPS

Wisconsin Idea Fellowships (<https://morgridge.wisc.edu/students/wisconsin-idea-fellowships/>) are awarded annually to undergraduate student projects working toward solving a challenge identified along with a local or global community partner. Fellowships are awarded to semester-long or year-long projects designed by an undergraduate student (or group of students) in collaboration with a community organization and a UW–Madison faculty or academic staff member.

## LANDSCAPE ARCHITECTURE, BLA

Students who enjoy art, science, technology, problem-solving, and design should consider a career in landscape architecture. Graduates in landscape architecture influence the design and management of cities, parks, and open spaces. They often advise park managers, citizen groups, landowners, and state agencies. Landscape architects design public and private outdoor spaces, restore and help preserve natural areas, develop and implement regional planning and public policy, and revitalize urban neighborhoods. The professional Bachelor of Landscape Architecture (BLA) degree program focuses on form-giving design, design implementation, and professional practice. Emphasis is placed on

principles of design theory and process; problem solving in relationship to human needs and aspirations, environmental awareness and stewardship; and on the development of technical proficiencies required of professional practice. Students learn site analysis, graphic communication, design synthesis, construction technology, and the social and environmental factors that are part of design.

The BLA degree program provides professional education accredited by the American Society of Landscape Architects (ASLA) (<https://www.asla.org/AccreditationLAAB.aspx>). Students completing the requirements for this program are granted a BLA degree. Completion of this program is the first step in becoming a licensed landscape architect.

Please note that students completing the BLA degree **cannot** pursue an additional major, however, students may work towards and complete certificates.

## HOW TO GET IN

Admission to the professional program during the sophomore year, or in the second year of the degree plan, is on a competitive basis.

Students completing the requirements for this program are awarded a BLA degree. Because the BLA is an integrated degree program, it cannot be added as an additional major ("double major") by students pursuing other degree programs. Students who are admitted to and complete the BLA degree may not declare or be awarded additional majors in combination with the BLA degree. However, BLA students are permitted to complete certificate programs.

- 1. Eligibility for Consideration into the Landscape Architecture Accredited Professional Program.** Eligibility for consideration into the Landscape Architecture Accredited Professional Program depends on fulfillment of these requirements: students apply for formal admission to the program during the spring semester of each academic year. Selections are made only once a year for the fall semester. The first round of selections takes place in early summer. All students will be notified of their status at least two weeks before the start of the fall semester. Students who plan to complete their prerequisite courses during the summer session must so indicate on their application. The department will admit up to a maximum of 22 students, as resources permit. Selection will be based on a letter of intent, written by the applicant, which will address their reasons for entering the major, submission of portfolio, and on grades earned in the following two prerequisite courses: LAND ARC 250 **AND** LAND ARC 210 or LAND ARC 366.
- 2. AND** the applicant must have completed a minimum of 24 credit hours. University GPA will be considered.  
For more information on the professional design degree program and the application process please go to this link (<https://dpla.wisc.edu/>).
- 3. Selection Policies.** On-campus selections for admission will be made as soon as possible after spring semester grades are received.
- 4. Notification of Status.** Applicants who have completed their prerequisite courses at the end of spring semester will be notified of their status between June 1 and July 1 of each year for fall semester admission. Decisions on those applicants completing prerequisites during summer session will be made as soon as grades are received.
- 5. Appeal Procedures.** An appeal to the department's curriculum committee may be presented to clarify an error of fact or extenuating circumstances.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS AND SCIENCE DEGREE REQUIREMENTS: BACHELOR OF LANDSCAPE ARCHITECTURE (BLA)

Students pursuing a Bachelor of Landscape Architecture degree in the College of Letters & Science must complete all of the requirements below. The BLA is a special degree program; it is not considered a major. The BLA degree is not available to students who intend to earn a degree outside the College of Letters & Science.

### BACHELOR OF LANDSCAPE ARCHITECTURE DEGREE REQUIREMENTS

Mathematics	Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.
Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, including at least 3 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits in Biological Science and 6 credits in Physical Science.</li> </ul>

Liberal Arts & Science Coursework	Complete at least 108 credits.
Depth of Advanced Coursework	Complete at least 60 credits at the Intermediate/Advanced level.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

LAND ARC 511	Geodesign Methods and Applications	3
LAND ARC 550	Professional Practice in Landscape Architecture	3
<i>Advanced Studio Sequence</i>		
LAND ARC 560	Plants and Ecology in Design	4
LAND ARC 561	Housing and Urban Design	4
LAND ARC 562	Open Space Planning and Design	4
LAND ARC 563	Designing Sustainable and Resilient Regions	4
<i>Capstone Sequence</i>		
LAND ARC 610 & LAND ARC 611	Landscape Architecture Seminar and Senior Capstone in Landscape Architecture	7

**Total Credits** **73**

## REQUIREMENTS FOR THE BLA

Code	Title	Credits
<i>Introduction and Foundation</i>		
LAND ARC 210 or LAND ARC 366	Introduction to Landscape Architecture Design Introduction to Architectural and Environmental Design	3-4
LAND ARC 250	Survey of Landscape Architecture Design	3
LAND ARC 260	History of Landscape Architecture	3
<i>Other Required Foundation Courses</i>		
BOTANY 100 or BOTANY/ BIOLOGY 130	Survey of Botany General Botany	3-5
DS 221	Person and Environment Interactions	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
LAND ARC 380	Plants for Ecological Design I	2
LAND ARC 381	Plants for Ecological Design II	1
SOIL SCI/ENVIR ST/ GEOG 230 or SOIL SCI 301	Soil: Ecosystem and Resource General Soil Science	3
<i>Intermediate Studio Sequence</i>		
LAND ARC 261	Principles of Landscape Architecture Design and Graphics	4
LAND ARC 321	Environment and Behavior Studio - Designing Health Promoting Environments	4
LAND ARC 353	Landscape Architectural Technology I	3
LAND ARC 354	Landscape Architectural Technology II	3
<i>Professional Theory and Practice Core</i>		
LAND ARC 460	Advanced Visual Communication in Landscape Architecture	3
LAND ARC 397	Internship in Landscape Architecture	1

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all LAND ARC courses and courses that count toward the BLA program
- 2.000 GPA on 15 Upper Level credits, taken in Residence <sup>1</sup>
- 15 credits in LAND ARC, taken on the UW–Madison campus

## FOOTNOTES

<sup>1</sup>

LAND ARC and major courses numbered 500–699 are Upper Level.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate competence and critical judgement in applying intellectual and technical skills necessary for site and landscape-scale design, in particular skills of problem-solving using site inventory/analysis; spatial/temporal analysis; programming; synthesis; oral,

written, and visual communication; construction implementation; and post-occupancy evaluation.

2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members to identify and solve complicated landscape design and planning problems.
3. Understand, apply, and evaluate the principles, theories, and recent research findings in the discipline of landscape architecture.
4. Integrate humanistic, scientific, legal, political, economic, social, ecological, and technological dimensions in solving novel design and planning problems concerning the betterment of rural and urban natural and cultural landscapes.
5. Understand, analyze, and apply design and planning theories and principles to urban and rural landscapes to benefit human living conditions.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Quantitative Reasoning A	4
Foreign Language (if needed)		4 Ethnic Studies	4
LAND ARC 210		4 BOTANY 100 or 130	3
LAND ARC 250		3 Elective	4
	<b>14</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 LAND ARC 260	3
LAND ARC 261		4 LAND ARC 321	4
LAND ARC 380		2 LAND ARC 353	3
LAND ARC 311		2 LAND ARC 381	1
DS 221		3 SOIL SCI/ENVIR ST/ GEOG 230 or 301	3
BOTANY/ENVIR ST/ ZOOLOGY 260		3 Electives	2
	<b>17</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
LAND ARC 354		3 LAND ARC 561	4
LAND ARC 397		1 LAND ARC 562	4
LAND ARC 460		3 LAND ARC 511	3
LAND ARC 560		4 Physical Science Breadth	3

Electives	3	
	<b>14</b>	<b>14</b>

#### Fourth Year

Fall	Credits	Spring	Credits
LAND ARC 563		4 LAND ARC 611 (also meets Communications B)	4
LAND ARC 550		3 Electives	10
LAND ARC 610		3	
Literature Breadth		3	
Elective		3	
	<b>16</b>		<b>14</b>

**Total Credits 120**

## ADVISING AND CAREERS

Students are assigned to a faculty advisor once they are admitted to the major. Prospective students should contact the undergraduate academic coordinator, Debi Griffin ([dagriffin@wisc.edu](mailto:dagriffin@wisc.edu)) for more information.

The BLA degree program provides professional education accredited by the the Landscape Architecture Accreditation Board (LAAB) (<https://www.asla.org/AccreditationLAAB.aspx>).

Completion of this program is the first step in becoming a licensed landscape architect through the Council of Landscape Architectural Registration Boards (CLARB) (<https://www.clarb.org/>).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students

- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### PROFESSORS

David Bart, Sam Dennis, Evelyn Howell, James A. LaGro Jr., Kurt Paulsen

### ASSOCIATE PROFESSOR

Carey McAndrews

### ASSISTANT PROFESSOR

Edna Ledesma

### DISTINGUISHED FACULTY ASSOCIATE

Shawn Kelly

### ASSOCIATE FACULTY ASSOCIATE

Eric Schuchardt

### ASSISTANT FACULTY ASSOCIATE

Edward Bosewell

### SENIOR LECTURERS

Doug Hadley, James Steiner

### ASSOCIATE LECTURERS

Jacob Blue, Nathan Larson

### UNDERGRADUATE ACADEMIC ADVISING SERVICES

Deborah Griffin

## CERTIFICATION/LICENSURE

### CERTIFICATION/LICENSURE

Landscape Architecture Registration Exam (<http://www.clarb.org/>)

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states: The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas,

Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## ACCREDITATION

### ACCREDITATION

Landscape Architecture Accreditation Board (<https://www.asla.org/AccreditationLAAB.aspx>)

Accreditation status: Accredited. Next accreditation review: 2025.

## POLITICAL SCIENCE

There are many definitions of political science. But whether a definition focuses on the analysis of governmental structures, or influences on voter choice, or the relationship between national governments, or the best form of government, at base, political science is about the systematic study of power. Whether power is exercised formally, as is the case between government and the individual, or informally, as is the case between individuals, it is the systematic study of power relationships that provides the subject matter for the discipline. Majors in political science obtain not only an understanding of the workings of government, but they also develop important skills in critical thinking and analysis. These skills make them ideal candidates for careers in law; in government at the state, national, and international levels; in business; in journalism; and in politics.

## DEGREES/MAJORS/CERTIFICATES

- Political Economy, Philosophy, and Politics, Certificate (p. 1312)
- Political Science, B.A. (p. 1314)
- Political Science, B.S. (p. 1320)
- Political Science, Certificate (p. 1326)

## PEOPLE

Please see the Faculty (<https://polisci.wisc.edu/faculty-2/>) and Administration and Staff (<https://polisci.wisc.edu/administration-staff/>) sections of the Political Science website.

## POLITICAL ECONOMY, PHILOSOPHY, AND POLITICS, CERTIFICATE

Why enroll in the political economy, philosophy, and politics certificate?

The political economy, philosophy, and politics (PEPP) certificate is rooted in a core insight: social, economic, and political problems have ethical, political, and economic dimensions. While the first program (politics, philosophy, and economics, or PPE) formally combining these three approaches was created at Oxford University in 1920, it drew on a tradition of inquiry that brought the three perspectives together. Since its creation



at Oxford, similar programs have been created at a wide range of the world's leading universities.

If we move from the insight behind the program to what it means in practice, we can see that understanding, for example, immigration requires understanding it from political, economic, and ethical perspectives. In short, understanding the pressing political, economic, or philosophical problems of the day entails seeing them from a perspective that brings together all three disciplines. As a result, the PEPP curriculum brings together faculty and coursework from three different academic departments: Economics, Philosophy, and Political Science. This cross-disciplinary curriculum is important not just for intellectual development, but also for fostering the habits of mind central to democratic citizenship.

Students who enroll in the PEPP certificate will thus take coursework from political science, economics, and philosophy, and the certificate program will culminate in a small-enrollment, research- and writing-oriented capstone seminar, POLI SCI 461. Combining breadth across the three disciplines with depth within two of the three, the PEPP certificate is a rigorous and exciting opportunity for cross-disciplinary study.

## HOW TO GET IN

Students can declare the program via the online declaration form. (<https://polisci.wisc.edu/pepp-certificate/>)

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

18 credits are required, as follows:<sup>1</sup>

#### CORE BREADTH

Four courses for 12 credits, one course each from these areas:

##### Economics

Code	Title	Credits
ECON/HIST SCI 305	Development of Economic Thought	3-4
ECON 330	Money and Banking	4
ECON 435	The Financial System	3
ECON 461	International Macroeconomics	3-4
ECON 464	International Trade	3-4
ECON 465	The American Economy to 1865	3-4
ECON/ HISTORY 466	The American Economy Since 1865	3-4

##### Philosophy

Code	Title	Credits
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS/ ENVIR ST 441	Environmental Ethics	3-4
PHILOS/ MED HIST 505	Justice and Health Care	3
PHILOS/ MED HIST 515	Public Health Ethics	3
PHILOS/ECON 524	Philosophy and Economics	3
PHILOS 541	Modern Ethical Theories	3

PHILOS 549	Great Moral Philosophers	3
PHILOS 555	Political Philosophy	3

#### Political Science: Political Theory

Code	Title	Credits
POLI SCI 360	History of American Political Thought	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 364	Christian Political Thought	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 463	Deception and Politics	4

#### Political Science: Institutions and Political Economy

Code	Title	Credits
POLI SCI 274	Political Choice and Strategy	3-4
POLI SCI 330	Political Economy of Development	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 356	Principles of International Law	3-4

#### ELECTIVE DEPTH COURSE

Take one (1) additional course (3 credits) from the list of courses above in **either** Economics (p. 1313) **or** Philosophy (p. 1313).

#### CAPSTONE SEMINAR

Code	Title	Credits
POLI SCI 461	Interdisciplinary Seminar in Political Economy, Philosophy, & Politics	3

1

Courses taken Pass/Fail do not count

### RESIDENCY AND QUALITY OF WORK

- Minimum 2.000 GPA in all certificate courses
- At least 9 certificate credits must be completed in residence

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Knowing key concepts and arguments from economics, philosophy, and political science.
2. Synthesizing key arguments and concepts from philosophy, political science, and economics.
3. Applying arguments and concepts from philosophy, political science, and economics to contemporary policy or scholarly debates.

## ADVISING AND CAREERS

Cassie Chulick - Undergraduate Advisor, 303 North Hall  
 Amy Gangl - Undergraduate Advisor, 302 North Hall  
 Rachel Margolies - Undergraduate Advisor, 301 North Hall

Appointments scheduled with Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Faculty Director: Daniel Kapust (<https://polisci.wisc.edu/people/faculty/daniel-kapust/>), Associate Professor, Political Science

Program Core Faculty with Departmental Affiliation:

- Jim Walker, Professor, Economics
- Maria Muniagurria, Economics
- Daniel Hausman, Professor, Philosophy
- Harry Brighouse, Professor, Philosophy.
- Daniel Kapust, Associate Professor, Political Science
- Helen Kinsella, Associate Professor, Political Science
- Howard Schweber, Professor, Political Science
- John Zumbrunnen, Professor, Political Science

- Genevieve Rousseliere, Assistant Professor, Political Science
- Michelle Schwarze, Assistant Professor, Political Science
- Richard Avramenko, Associate Professor, Political Science

Advising:

- Cassie Chulick, Undergraduate Advisor, Political Science
- Amy Gangl, Director of Undergraduate Studies
- Rachel Margolies, Undergraduate Coordinator

## POLITICAL SCIENCE, B.A.

### WHY STUDY POLITICAL SCIENCE?

There are many definitions of political science. But whether a definition focuses on the analysis of governmental structures, or influences on voter choice, or the relationship between national governments, or the best form of government, at base, political science is about the systematic study of power. Whether power is exercised formally, as is the case between government and the individual, or informally, as is the case between individuals, it is the systematic study of power relationships that provides the subject matter for the discipline. Majors in political science obtain not only an understanding of the workings of government, but they also develop important skills in critical thinking and analysis. These skills make them ideal candidates for careers in law; in government at the state, national, and international levels; in business; in journalism; and in politics.

### WHAT CAREERS DO POLITICAL SCIENCE MAJORS PURSUE?

Poli Sci majors learn quickly, work well in teams, and have basic understanding of the policy process and the operations of government. Poli Sci majors understand that for every endeavor, no matter how important, there is a mountain of ordinary grunt work that has to be done. Poli Sci majors can be counted on to do the foot-work, put in the face-time, and endure the slog necessary of everything of consequence.

Poli Sci majors go on to work in all levels of government. Local and state governments have a direct impact on the quality of life of all Americans. Courses on state and urban government, public policy, administrative law, and public administration are especially valuable. Quantitative and statistical skills developed in these courses and applied in the internships many of our students do provide a powerful combination.

Poli Sci majors go on to work in a wide range of International careers, in business, Foreign Service, and non-governmental organizations. Political Science offers a wide variety of courses in comparative politics, international relations and organizations, public policy, political development, and interest group politics. These courses in combination with economics, statistics, computer science, and international trade.

Poli Sci majors pursue careers in campaign management, political polling, national political committees, and consulting. They will have taken multiple courses in the American political system, comparative political parties, elections, public opinion, and voting behavior; as well as committing themselves to developing their writing and data analysis. There are over half a million campaigns in the United States annually, and while entry level jobs have long hours, low pay, and enormous demands, they are places where you can 'cut your political teeth'. Local campaigns lead to statewide

or national campaigns, and then perhaps to consulting and polling if that strikes your interest.

Poli Sci majors have also traditionally gone into law. Some lawyers are litigators while others are employed by corporations, government, and other organizations. Political Science track fits nicely for students seeking law degrees as official credentials to 'practice law' and those students who seek a law degree as an additional 'tool' to make positive impacts in their professional areas of interest. Some individuals with legal training work in other areas such as corporate or public management. The department offers a wide variety of political theory, constitutional law, and public policy courses that will help you explore the interaction between law, politics, and society.

## HOW TO GET IN

Students in the College of Letters & Science can declare Political Science by completing a form on the department website (<https://polisci.wisc.edu/advising-and-major-information/>).

Students in other schools and colleges interested in adding the Political Science major to their primary degree program need an online form signed by the Political Science advisor in order to obtain permission from their home school/college to add the additional major.

Students declared in the Political Science certificate may not be declared in the Political Science major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

**30 credits** are required in the following areas:

### DISTRIBUTION <sup>1</sup>

Code	Title	Credits
<b>Three courses and three areas required:</b>		<b>9–12</b>
	<i>International Relations</i>	

POLI SCI 140	Introduction to International Relations	POLI SCI 410	Citizenship, Democracy, and Difference
POLI SCI/ CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	POLI SCI 411	The American Constitution : Powers and Structures of Government
POLI SCI 340	The European Union: Politics and Political Economy	POLI SCI 412	The American Constitution: Rights and Civil Liberties
POLI SCI 343	Theories of International Security	POLI SCI 414	The Supreme Court as a Political Institution
POLI SCI 345	Conflict Resolution	POLI SCI 416	Community Power and Grass Roots Politics
POLI SCI 346	China in World Politics	POLI SCI 417	The American Judicial System
POLI SCI 347	Terrorism	POLI SCI/ PUB AFFR 419	Administrative Law
POLI SCI 348	Analysis of International Relations	POLI SCI 470	The First Amendment
POLI SCI 350	International Political Economy	POLI SCI 481	Honors Seminar on Race and Politics in the United States
POLI SCI 354	International Institutions and World Order	POLI SCI 490	Study Abroad Topics in Political Science: American Government
POLI SCI 356	Principles of International Law	POLI SCI 510	Politics of Government Regulation
POLI SCI 359	American Foreign Policy	POLI SCI 511	Campaign Finance
POLI SCI 377	Nuclear Weapons and World Politics	POLI SCI 515	Public Opinion
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	POLI SCI/ AFROAMER 519	African American Political Theory
POLI SCI/ECON/ ENVR ST/ URB R PL 449	Government and Natural Resources	POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course
POLI SCI 455	African International Relations		<i>Political Theory</i>
POLI SCI 652	The Politics of Development	POLI SCI 160	Introduction to Political Theory
<i>American Government</i>		POLI SCI 265	Development of Ancient and Medieval Western Political Thought
POLI SCI 104	Introduction to American Politics and Government	POLI SCI 360	History of American Political Thought
POLI SCI 184	Introduction to American Politics	POLI SCI 361	Contemporary American Political Thought
POLI SCI 205	Introduction to State Government	POLI SCI 363	Literature and Politics
POLI SCI 206	Introduction to Political Psychology	POLI SCI 364	Christian Political Thought
POLI SCI/ LEGAL ST 217	Law, Politics and Society	POLI SCI/ ILS/ITALIAN/ LITTRANS 365	Machiavelli and His World
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	POLI SCI 460	Topics in Political Philosophy
POLI SCI 272	Introduction to Public Policy	POLI SCI 463	Deception and Politics
POLI SCI/ AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	POLI SCI/ GEN&WS 469	Women and Politics
POLI SCI/ CHICLA 302	Mexican-American Politics	POLI SCI/ AFROAMER 519	African American Political Theory
POLI SCI 304	The Political Economy of Race in the United States	POLI SCI 590	Study Abroad Topics in Political Science: Political Theory
POLI SCI 305	Elections and Voting Behavior		<i>Comparative Politics</i>
POLI SCI 306	American Political Parties	POLI SCI 120	Introduction to Comparative Politics
POLI SCI 311	United States Congress	POLI SCI 182	Introduction to Comparative Politics (Honors)
POLI SCI 314	Criminal Law and Justice	POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies
POLI SCI 315	Legislative Internship	POLI SCI/ASIAN/ GEOG/HISTORY/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
POLI SCI 402	Wisconsin in Washington Internship Course		
POLI SCI 405	State Government and Public Policy		
POLI SCI 408	The American Presidency		

POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey
POLI SCI/ASIAN/ HISTORY 255	Introduction to East Asian Civilizations
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction
POLI SCI/ AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ SOC 277	Africa: An Introductory Survey
POLI SCI/ AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction
POLI SCI 320	Governments and Politics of the Middle East and North Africa
POLI SCI 321	Latin-American Politics
POLI SCI 322	Politics of Southeast Asia
POLI SCI 324	Chinese Politics
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
POLI SCI 328	Politics of East and Southeast Asia
POLI SCI 329	African Politics
POLI SCI 330	Political Economy of Development
POLI SCI 332	German Politics
POLI SCI 334	Russian Politics
POLI SCI 336	Democracy (and Its Uncertain Future)
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society
POLI SCI 339	Non-Democracies
POLI SCI/ JEWISH 341	Israeli Politics and Society
POLI SCI/ CHICLA/ HISTORY/ LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective
POLI SCI/ HISTORY 370	Islam and Politics
POLI SCI 421	The Challenge of Democratization
POLI SCI/ CHICLA/ HISTORY 422	Latino History and Politics

POLI SCI/ INTL ST 423	Social Mobilization in Latin America
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
POLI SCI/ INTL ST 431	Contentious Politics
POLI SCI 432	Comparative Legal Institutions
POLI SCI/ RELIG ST 433	Religion and Politics
POLI SCI/ INTL ST 434	The Politics of Human Rights
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East
POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies
POLI SCI 437	Nationalism and Ethnic Conflict
POLI SCI 438	Comparative Political Culture
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
POLI SCI 529	Arab-Israeli Conflict
POLI SCI 534	Socialism and Transitions to the Market
POLI SCI 537	Electoral Systems and Representation
POLI SCI 538	Politics and Policies in the European Union
POLI SCI 635	Comparative Politics of Sport
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics

**Total Credits** **9-12**

## RESEARCH METHODS

Code	Title	Credits
<b>Complete one course from:</b>		<b>3-4</b>
POLI SCI 170	Research Methods in Political Science	
POLI SCI 270	Understanding Political Numbers	
POLI SCI 274	Political Choice and Strategy	
POLI SCI 348	Analysis of International Relations	
POLI SCI/ JOURN/ URB R PL 373	Introduction to Survey Research	

**Total Credits** **3-4**

## ELECTIVES

Additional POLI SCI courses to attain 30 credits in the major.<sup>2</sup>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all POLI SCI courses and courses that count toward the major
- 2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>3</sup>
- 15 credits in POLI SCI, taken on campus

## HONORS IN THE MAJOR

To declare Honors in the Major, students must have at least one POLI SCI course for Honors, at least a 3.300 University GPA, and meet with the major advisor to discuss the requirements.

To earn Honors in the Major, students must satisfy the requirements for the major (above) *and* these additional requirements:

- Earn a 3.300 or higher University GPA
- Earn 3.500 GPA or higher in all POLI SCI courses
- Complete at least 15 credits in POLI SCI for Honors to include:<sup>4</sup>

Code	Title	Credits
<i>Complete one of these Thesis sequences:</i>		6
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis	
POLI SCI 683 & POLI SCI 684	Senior Honors Thesis Seminar and Senior Honors Thesis Seminar	
Additional POLI SCI courses taken for Honors <sup>4</sup>		9
<b>Total Credits</b>		<b>15</b>

## FOOTNOTES

1

Courses may only meet one Distribution area. A course may meet both a Distribution and the Research Methods requirement, but will only be applied once toward the 30 credits required in the major.

2

No more than 6 total credits of Directed Study (POLI SCI 199, POLI SCI 698, POLI SCI 699) and Internship (POLI SCI 315) may count in the major.

3

POLI SCI courses numbered 300 and higher count as upper-level in the major.

4

A grade of B or higher is required to earn Honors credit.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work**

Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop an understanding of and appreciation for the methods and approaches of diverse subfields in Political Science--#American Politics, Comparative Politics, International Relations, and Political Theory--#and their relevance to important theoretical and pragmatic questions.
2. Analyze different forms and practices of governance both democratic and non#democratic.
3. Argue effectively and defend propositions with intellectual integrity, while considering a range of alternative points of view and evidence.
4. Analyze relations among individuals, civil society, political institutions, and states.
5. Analyze the motivations and consequences of political decision# making and activities.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it--along with their DARS report, the Degree Planner, and Course Search & Enroll tools--to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
POLI SCI 104, 120, 140, or 160		3-4 POLI SCI 104, 120, 140, or 160 (complete two)	3-4
Communications A		3 Literature Breadth	3
Quantitative Reasoning A		3 Foreign Language (if needed)	4
Foreign Language (if needed)		4	
		<b>14</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Declare the major		POLI SCI elective	3
POLI SCI/CHICLA 231, 297, or 355 (satisfies Ethnic Studies requirement)		3-4 Communications B	4
POLI SCI 270, 274, or 348 (satisfies Quantitative Reasoning B requirement)		3-4 Physical Science Breadth	3

Biological Science Breadth	3 Literature Breadth	3
I/A COMP SCI, MATH or STAT (if B.S.)	3 I/A COMP SCI, MATH, or STAT (if B.S.)	3
INTER-LS 210	1	
	<b>15</b>	<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
POLI SCI course 300 and above	4	POLI SCI course 300 and above	3
Humanities Breadth	3	Humanities Breadth	3
Science Breadth	3	Science Breadth	3
Elective	4	Elective	6
		Apply for Senior Thesis (optional) <sup>1</sup>	
	<b>14</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
POLI SCI course 300 and above	4	POLI SCI course 300 and above	6
POLI SCI 681, 683, or 691 (optional) <sup>1</sup>	3-4	POLI SCI 682, 684, or 692 (optional) <sup>1</sup>	3-4
Elective	9	Elective	6
	<b>16</b>		<b>15</b>

**Total Credits 120**

1

Students wishing to write a senior thesis (with or without Honors) should apply in the spring of their third year.

**THREE-YEAR PLAN**

**SAMPLE THREE-YEAR PLAN**

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

**DEPARTMENTAL EXPECTATIONS**

Students planning to graduate within three years with a Political Science major should enter the University with a minimum of 18 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 credits of any elective coursework
- 3-4 units of foreign language

Students missing one or more of these requirements upon entering the University should talk to their advisor about completing coursework over Summer terms to stay on track for a three year timeline.

**First Year**

Fall	Credits	Spring	Credits
POLI SCI 104, 120, 140, or 160	4	Declare the Major	
POLI SCI 104, 120, 140, or 160	4	POLI SCI 104, 120, 140, or 160	4
Biological Science Breadth	3	POLI SCI Elective	3
Literature Breadth	3	Communication B	4
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (if B.A.)	3	Literature Breadth	3
		Physical Science Breadth	3
	<b>17</b>		<b>17</b>

**Second Year**

Fall	Credits	Spring	Credits
POLI SCI/CHICLA 231, 297, or 355 (satisfies Ethnic Studies)	3-4	POLI SCI course 300 and above	4
POLI SCI 270, 274, or 348 (satisfies Quantitative Reasoning B)	4	POLI SCI course 300 and above	3
Humanities Breadth	3	Humanities Breadth	3
Science Breadth	3	Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Elective	3	Elective (Intermediate or Advanced level)	3
		INTER-LS 210	1
		Apply for Senior Thesis (optional) <sup>1</sup>	
	<b>16-17</b>		<b>17</b>

**Third Year**

Fall	Credits	Spring	Credits
POLI SCI course 300 and above	4	POLI SCI course 300 and above	4
POLI SCI 681, 683, or 691 <sup>1</sup>	4	POLI SCI course 300 and above	3
Science Breadth	3	POLI SCI 682, 684, or 692 <sup>1</sup>	4
Electives (Intermediate or Advanced level)	6	Electives (Intermediate or Advanced level)	6
	<b>17</b>		<b>17</b>

**Total Credits 101-102**

1

Students wishing to write a senior thesis (with or without Honors) should apply in the spring of their second year.

## ADVISING AND CAREERS

### ADVISING

The Department of Political Science has academic advisors who are available to meet with you to offer guidance on:

- Course selection
- Program planning
- Internship opportunities
- Study abroad programs
- Scholarship opportunities
- Student research interests
- Transfer and study abroad credits

Information about scheduling appointments can be found [here \(https://polisci.wisc.edu/advising-and-major-information/#advising\)](https://polisci.wisc.edu/advising-and-major-information/#advising). **Please note that no advising appointments are scheduled via email.**

### ENROLLMENT INFORMATION

Political science majors who wish to enroll in the following course(s) must obtain prior consent/authorization:

- Directed Study
- Thesis
- Proseminars (varies by specific course; check footnotes in the class schedule)
- Specific Topic
- Other advanced-level coursework with consent of the instructor in lieu of other required courses

Information and course descriptions are posted on the department website prior to each enrollment period. POLI SCI 315 Legislative Internship is available by application only. Specific deadlines will be announced each semester. Students with a classification making them ineligible for certain courses due to retroactive or AP credits may see the instructor for possible permission to enroll on a space available basis. Students who wish to enroll in a course that is closed may use the online wait list available through the Student Center in MyUW. The number of credits for variable credit courses is determined by course format and contact periods for a specific semester as noted in the class schedule. For graduate programs, see the Graduate section of this Guide.

### CAREER ADVISING

#### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career

skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please see the Faculty (<https://polisci.wisc.edu/faculty-2/>) and Administration and Staff (<https://polisci.wisc.edu/administration-staff/>) sections of the Political Science website.

## POLITICAL SCIENCE, B.S.

### WHY STUDY POLITICAL SCIENCE?

There are many definitions of political science. But whether a definition focuses on the analysis of governmental structures, or influences on voter choice, or the relationship between national governments, or the best form of government, at base, political science is about the systematic study of power. Whether power is exercised formally, as is the case between government and the individual, or informally, as is the case between individuals, it is the systematic study of power relationships that provides the subject matter for the discipline. Majors in political science obtain not only an understanding of the workings of government, but they also develop important skills in critical thinking and analysis. These skills make them ideal candidates for careers in law; in government at the state, national, and international levels; in business; in journalism; and in politics.

### WHAT CAREERS DO POLITICAL SCIENCE MAJORS PURSUE?

Poli Sci majors learn quickly, work well in teams, and have basic understanding of the policy process and the operations of government. Poli Sci majors understand that for every endeavor, no matter how important, there is a mountain of ordinary grunt work that has to be done. Poli Sci majors can be counted on to do the foot-work, put in the face-time, and endure the slog necessary of everything of consequence.



Poli Sci majors go on to work in all levels of government. Local and state governments have a direct impact on the quality of life of all Americans. Courses on state and urban government, public policy, administrative law, and public administration are especially valuable. Quantitative and statistical skills developed in these courses and applied in the internships many of our students do provide a powerful combination.

Poli Sci majors go on to work in a wide range of International careers, in business, Foreign Service, and non-governmental organizations. Political Science offers a wide variety of courses in comparative politics, international relations and organizations, public policy, political development, and interest group politics. These courses in combination with economics, statistics, computer science, and international trade.

Poli Sci majors pursue careers in campaign management, political polling, national political committees, and consulting. They will have taken multiple courses in the American political system, comparative political parties, elections, public opinion, and voting behavior; as well as committing themselves to developing their writing and data analysis. There are over half a million campaigns in the United States annually, and while entry level jobs have long hours, low pay, and enormous demands, they are places where you can 'cut your political teeth'. Local campaigns lead to statewide or national campaigns, and then perhaps to consulting and polling if that strikes your interest.

Poli Sci majors have also traditionally gone into law. Some lawyers are litigators while others are employed by corporations, government, and other organizations. Political Science track fits nicely for students seeking law degrees as official credentials to 'practice law' and those students who seek a law degree as an additional 'tool' to make positive impacts in their professional areas of interest. Some individuals with legal training work in other areas such as corporate or public management. The department offers a wide variety of political theory, constitutional law, and public policy courses that will help you explore the interaction between law, politics, and society.

## HOW TO GET IN

Students in the College of Letters & Science can declare Political Science by completing a form on the department website (<https://polisci.wisc.edu/advising-and-major-information/>).

Students in other schools and colleges interested in adding the Political Science major to their primary degree program need an online form signed by the Political Science advisor in order to obtain permission from their home school/college to add the additional major.

Students declared in the Political Science certificate may not be declared in the Political Science major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>

Quality of Work • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

**30 credits** are required in the following areas:

### DISTRIBUTION <sup>1</sup>

Code	Title	Credits
<b>Three courses and three areas required: 9-12</b>		
<i>International Relations</i>		
POLI SCI 140	Introduction to International Relations	
POLI SCI/ CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	
POLI SCI 340	The European Union: Politics and Political Economy	
POLI SCI 343	Theories of International Security	
POLI SCI 345	Conflict Resolution	
POLI SCI 346	China in World Politics	
POLI SCI 347	Terrorism	
POLI SCI 348	Analysis of International Relations	
POLI SCI 350	International Political Economy	
POLI SCI 354	International Institutions and World Order	
POLI SCI 356	Principles of International Law	
POLI SCI 359	American Foreign Policy	
POLI SCI 377	Nuclear Weapons and World Politics	
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	
POLI SCI 455	African International Relations	
POLI SCI 652	The Politics of Development	
<i>American Government</i>		
POLI SCI 104	Introduction to American Politics and Government	
POLI SCI 184	Introduction to American Politics	
POLI SCI 205	Introduction to State Government	
POLI SCI 206	Introduction to Political Psychology	
POLI SCI/ LEGAL ST 217	Law, Politics and Society	
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	
POLI SCI 272	Introduction to Public Policy	

POLI SCI/ AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction
POLI SCI/ CHICLA 302	Mexican-American Politics
POLI SCI 304	The Political Economy of Race in the United States
POLI SCI 305	Elections and Voting Behavior
POLI SCI 306	American Political Parties
POLI SCI 311	United States Congress
POLI SCI 314	Criminal Law and Justice
POLI SCI 315	Legislative Internship
POLI SCI 402	Wisconsin in Washington Internship Course
POLI SCI 405	State Government and Public Policy
POLI SCI 408	The American Presidency
POLI SCI 410	Citizenship, Democracy, and Difference
POLI SCI 411	The American Constitution : Powers and Structures of Government
POLI SCI 412	The American Constitution: Rights and Civil Liberties
POLI SCI 414	The Supreme Court as a Political Institution
POLI SCI 416	Community Power and Grass Roots Politics
POLI SCI 417	The American Judicial System
POLI SCI/ PUB AFFR 419	Administrative Law
POLI SCI 470	The First Amendment
POLI SCI 481	Honors Seminar on Race and Politics in the United States
POLI SCI 490	Study Abroad Topics in Political Science: American Government
POLI SCI 510	Politics of Government Regulation
POLI SCI 511	Campaign Finance
POLI SCI 515	Public Opinion
POLI SCI/ AFROAMER 519	African American Political Theory
POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course
<i>Political Theory</i>	
POLI SCI 160	Introduction to Political Theory
POLI SCI 265	Development of Ancient and Medieval Western Political Thought
POLI SCI 360	History of American Political Thought
POLI SCI 361	Contemporary American Political Thought
POLI SCI 363	Literature and Politics
POLI SCI 364	Christian Political Thought
POLI SCI/ ILS/ITALIAN/ LITTRANS 365	Machiavelli and His World

POLI SCI 460	Topics in Political Philosophy
POLI SCI 463	Deception and Politics
POLI SCI/ GEN&WS 469	Women and Politics
POLI SCI/ AFROAMER 519	African American Political Theory
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory
<i>Comparative Politics</i>	
POLI SCI 120	Introduction to Comparative Politics
POLI SCI 182	Introduction to Comparative Politics (Honors)
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies
POLI SCI/ASIAN/ GEOG/HISTORY/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey
POLI SCI/ASIAN/ HISTORY 255	Introduction to East Asian Civilizations
POLI SCI/ AFROAMER/ ANTHRO/ C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction
POLI SCI/ AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ SOC 277	Africa: An Introductory Survey
POLI SCI/ AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction
POLI SCI 320	Governments and Politics of the Middle East and North Africa
POLI SCI 321	Latin-American Politics
POLI SCI 322	Politics of Southeast Asia
POLI SCI 324	Chinese Politics
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective
POLI SCI 328	Politics of East and Southeast Asia
POLI SCI 329	African Politics
POLI SCI 330	Political Economy of Development
POLI SCI 332	German Politics
POLI SCI 334	Russian Politics

POLI SCI 336	Democracy (and Its Uncertain Future)
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society
POLI SCI 339	Non-Democracies
POLI SCI/ JEWISH 341	Israeli Politics and Society
POLI SCI/ CHICLA/ HISTORY/ LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective
POLI SCI/ HISTORY 370	Islam and Politics
POLI SCI 421	The Challenge of Democratization
POLI SCI/ CHICLA/ HISTORY 422	Latino History and Politics
POLI SCI/ INTL ST 423	Social Mobilization in Latin America
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
POLI SCI/ INTL ST 431	Contentious Politics
POLI SCI 432	Comparative Legal Institutions
POLI SCI/ RELIG ST 433	Religion and Politics
POLI SCI/ INTL ST 434	The Politics of Human Rights
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East
POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies
POLI SCI 437	Nationalism and Ethnic Conflict
POLI SCI 438	Comparative Political Culture
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
POLI SCI 529	Arab-Israeli Conflict
POLI SCI 534	Socialism and Transitions to the Market
POLI SCI 537	Electoral Systems and Representation
POLI SCI 538	Politics and Policies in the European Union
POLI SCI 635	Comparative Politics of Sport
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics

**Total Credits** **9-12**

## RESEARCH METHODS

Code	Title	Credits
<b>Complete one course from:</b>		<b>3-4</b>
POLI SCI 170	Research Methods in Political Science	
POLI SCI 270	Understanding Political Numbers	
POLI SCI 274	Political Choice and Strategy	
POLI SCI 348	Analysis of International Relations	

POLI SCI/  
JOURN/  
URB R PL 373

Introduction to Survey Research

**Total Credits**

**3-4**

## ELECTIVES

Additional POLI SCI courses to attain 30 credits in the major.<sup>2</sup>

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all POLI SCI courses and courses that count toward the major
- 2.000 GPA on 15 upper-level credits in the major, taken in residence<sup>3</sup>
- 15 credits in POLI SCI, taken on campus

## HONORS IN THE MAJOR

To declare Honors in the Major, students must have at least one POLI SCI course for Honors, at least a 3.300 University GPA, and meet with the major advisor to discuss the requirements.

To earn Honors in the Major, students must satisfy the requirements for the major (above) *and* these additional requirements:

- Earn a 3.300 or higher University GPA
- Earn 3.500 GPA or higher in all POLI SCI courses
- Complete at least 15 credits in POLI SCI for Honors to include:<sup>4</sup>

Code	Title	Credits
<i>Complete one of these Thesis sequences:</i>		6
POLI SCI 681 & POLI SCI 682	Senior Honors Thesis and Senior Honors Thesis	
POLI SCI 683 & POLI SCI 684	Senior Honors Thesis Seminar and Senior Honors Thesis Seminar	
Additional POLI SCI courses taken for Honors <sup>4</sup>		9
<b>Total Credits</b>		<b>15</b>

## FOOTNOTES

1

Courses may only meet one Distribution area. A course may meet both a Distribution and the Research Methods requirement, but will only be applied once toward the 30 credits required in the major.

2

No more than 6 total credits of Directed Study (POLI SCI 199, POLI SCI 698, POLI SCI 699) and Internship (POLI SCI 315) may count in the major.

3

POLI SCI courses numbered 300 and higher count as upper-level in the major.

4

A grade of B or higher is required to earn Honors credit.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop an understanding of and appreciation for the methods and approaches of diverse subfields in Political Science--#American Politics, Comparative Politics, International Relations, and Political Theory--#and their relevance to important theoretical and pragmatic questions.
2. Analyze different forms and practices of governance both democratic and non#democratic.
3. Argue effectively and defend propositions with intellectual integrity, while considering a range of alternative points of view and evidence.
4. Analyze relations among individuals, civil society, political institutions, and states.
5. Analyze the motivations and consequences of political decision# making and activities.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
POLI SCI 104, 120, 140, or 160		3-4 POLI SCI 104, 120, 140, or 160 (complete two)	3-4
Communications A		3 Literature Breadth	3

Quantitative Reasoning A	3 Foreign Language (if needed)	4
Foreign Language (if needed)	4	
<b>14</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
Declare the major		POLI SCI elective	3
POLI SCI/CHICLA 231, 297, or 355 (satisfies Ethnic Studies requirement)		3-4 Communications B	4
POLI SCI 270, 274, or 348 (satisfies Quantitative Reasoning B requirement)		3-4 Physical Science Breadth	3
Biological Science Breadth		3 Literature Breadth	3
I/A COMP SCI, MATH or STAT (if B.S.)		3 I/A COMP SCI, MATH, or STAT (if B.S.)	3
INTER-LS 210		1	
<b>15</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
POLI SCI course 300 and above		4 POLI SCI course 300 and above	3
Humanities Breadth		3 Humanities Breadth	3
Science Breadth		3 Science Breadth	3
Elective		4 Elective	6
		Apply for Senior Thesis (optional) <sup>1</sup>	
<b>14</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
POLI SCI course 300 and above		4 POLI SCI course 300 and above	6
POLI SCI 681, 683, or 691 (optional) <sup>1</sup>		3-4 POLI SCI 682, 684, or 692 (optional) <sup>1</sup>	3-4
Elective		9 Elective	6
<b>16</b>		<b>15</b>	

**Total Credits 120**

<sup>1</sup>

Students wishing to write a senior thesis (with or without Honors) should apply in the spring of their third year.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years with a Political Science major should enter the University with a minimum of 18 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 credits of any elective coursework
- 3-4 units of foreign language

Students missing one or more of these requirements upon entering the University should talk to their advisor about completing coursework over Summer terms to stay on track for a three year timeline.

**First Year**

Fall	Credits	Spring	Credits
POLI SCI 104, 120, 140, or 160		4 Declare the Major	
POLI SCI 104, 120, 140, or 160		4 POLI SCI 104, 120, 140, or 160	4
Biological Science Breadth		3 POLI SCI Elective	3
Literature Breadth		3 Communication B	4
Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (if B.A.)		3 Literature Breadth	3
		Physical Science Breadth	3
<b>17</b>		<b>17</b>	

**Second Year**

Fall	Credits	Spring	Credits
POLI SCI/CHICLA 231, 297, or 355 (satisfies Ethnic Studies)		3-4 POLI SCI course 300 and above	4
POLI SCI 270, 274, or 348 (satisfies Quantitative Reasoning B)		4 POLI SCI course 300 and above	3
Humanities Breadth		3 Humanities Breadth	3
Science Breadth		3 Intermediate or Advanced COMP SCI, MATH, or STAT (if B.S.) or Elective (Intermediate or Advanced level) (if B.A.)	3
Elective		3 Elective (Intermediate or Advanced level)	3
		INTER-LS 210	1

Apply for Senior Thesis (optional) <sup>1</sup>			
		16-17	17
<b>Third Year</b>			
Fall	Credits	Spring	Credits
POLI SCI course 300 and above		4 POLI SCI course 300 and above	4
POLI SCI 681, 683, or 691 <sup>1</sup>		4 POLI SCI course 300 and above	3
Science Breadth		3 POLI SCI 682, 684, or 692 <sup>1</sup>	4
Electives (Intermediate or Advanced level)		6 Electives (Intermediate or Advanced level)	6
		<b>17</b>	<b>17</b>
<b>Total Credits 101-102</b>			

1

Students wishing to write a senior thesis (with or without Honors) should apply in the spring of their second year.

## ADVISING AND CAREERS

### ADVISING

The Department of Political Science has academic advisors who are available to meet with you to offer guidance on:

- Course selection
- Program planning
- Internship opportunities
- Study abroad programs
- Scholarship opportunities
- Student research interests
- Transfer and study abroad credits

Information about scheduling appointments can be found [here \(https://polisci.wisc.edu/advising-and-major-information/#advising\)](https://polisci.wisc.edu/advising-and-major-information/#advising). **Please note that no advising appointments are scheduled via email.**

### ENROLLMENT INFORMATION

Political science majors who wish to enroll in the following course(s) must obtain prior consent/authorization:

- Directed Study
- Thesis
- Proseminars (varies by specific course; check footnotes in the class schedule)
- Specific Topic
- Other advanced-level coursework with consent of the instructor in lieu of other required courses

Information and course descriptions are posted on the department website prior to each enrollment period. POLI SCI 315 Legislative Internship is available by application only. Specific deadlines will be announced each semester. Students with a classification making them ineligible for certain courses due to retroactive or AP credits may see the instructor for possible permission to enroll on a space available basis. Students who wish to enroll in a course that is closed may use the online wait list available through the Student Center in MyUW. The number of

credits for variable credit courses is determined by course format and contact periods for a specific semester as noted in the class schedule. For graduate programs, see the Graduate section of this Guide.

## CAREER ADVISING

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Please see the Faculty (<https://polisci.wisc.edu/faculty-2/>) and Administration and Staff (<https://polisci.wisc.edu/administration-staff/>) sections of the Political Science website.

## POLITICAL SCIENCE, CERTIFICATE

There are many definitions of political science. But whether a definition focuses on the analysis of governmental structures, or influences on voter choice, or the relationship between national governments, or the best form of government, at base, political science is about the systematic study of power. Whether power is exercised formally, as is the case between government and the individual, or informally, as is the case between individuals, it is the systematic study of power relationships that provides the subject matter for the discipline. Students who pursue a certificate in political science obtain not only an understanding of the

workings of government, but they also develop important skills in critical thinking and analysis. These skills make them ideal candidates for careers in law; in government at the state, national, and international levels; in business; in journalism; and in politics.

## HOW TO GET IN

### DECLARING THE CERTIFICATE

There are no pre-requisites for declaring the Political Science certificate.

Students can declare at any time on the our website (<https://polisci.wisc.edu/politicalsciencecertificate/#requirements-and-declaration>). Political science majors are not eligible to declare the Political Science certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

Only 4 credits of Introductory requirement coursework will count in the certificate. Students must take at least one 3 credit Reading and Writing in Political Science course. Students may take more than one Reading and Writing in Political Science course to meet the certificate requirements; additional Reading and Writing in Political Science courses after the first count toward the required Intermediate and Advanced level Elective courses.

Code	Title	Credits
<b>Introductory Course (complete one)</b>		<b>3-4</b>
POLI SCI 104	Introduction to American Politics and Government	
POLI SCI 120	Introduction to Comparative Politics	
POLI SCI 140	Introduction to International Relations	
POLI SCI 160	Introduction to Political Theory	
POLI SCI 182	Introduction to Comparative Politics (Honors)	
POLI SCI 184	Introduction to American Politics	
<b>Reading and Writing in Political Science (complete one)</b>		<b>3-4</b>
POLI SCI 206	Introduction to Political Psychology	
POLI SCI 324	Chinese Politics	
POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	
POLI SCI 330	Political Economy of Development	
POLI SCI/ JEWISH 341	Israeli Politics and Society	
POLI SCI 345	Conflict Resolution	
POLI SCI 347	Terrorism	
POLI SCI 354	International Institutions and World Order	
POLI SCI 359	American Foreign Policy	
POLI SCI 360	History of American Political Thought	
POLI SCI 377	Nuclear Weapons and World Politics	
POLI SCI 460	Topics in Political Philosophy	

POLI SCI 481	Honors Seminar on Race and Politics in the United States
POLI SCI 529	Arab-Israeli Conflict
POLI SCI 601	Proseminar: Topics in Political Science

#### Electives 8-10

Any additional "Reading and Writing in Political Science" course from the list above, or any of the following courses:

POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies
POLI SCI 272	Introduction to Public Policy
POLI SCI/ CHICLA 302	Mexican-American Politics
POLI SCI 304	The Political Economy of Race in the United States
POLI SCI 305	Elections and Voting Behavior
POLI SCI 311	United States Congress
POLI SCI 315	Legislative Internship
POLI SCI 320	Governments and Politics of the Middle East and North Africa
POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America
POLI SCI 328	Politics of East and Southeast Asia
POLI SCI 329	African Politics
POLI SCI 332	German Politics
POLI SCI 334	Russian Politics
POLI SCI 335	Social Identities
POLI SCI 336	Democracy (and Its Uncertain Future)
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society
POLI SCI 339	Non-Democracies
POLI SCI 340	The European Union: Politics and Political Economy
POLI SCI 343	Theories of International Security
POLI SCI 349	Global Access to Justice
POLI SCI 350	International Political Economy
POLI SCI 356	Principles of International Law
POLI SCI 361	Contemporary American Political Thought
POLI SCI 363	Literature and Politics
POLI SCI/ HISTORY 370	Islam and Politics
POLI SCI 390	Study Abroad Topics in Political Science: International Relations
POLI SCI 401	Selected Topics in Political Science
POLI SCI 402	Wisconsin in Washington Internship Course
POLI SCI 408	The American Presidency
POLI SCI 411	The American Constitution : Powers and Structures of Government
POLI SCI 412	The American Constitution: Rights and Civil Liberties
POLI SCI 414	The Supreme Court as a Political Institution

POLI SCI 416	Community Power and Grass Roots Politics
POLI SCI 417	The American Judicial System
POLI SCI/ PUB AFFR 419	Administrative Law
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective
POLI SCI/ INTL ST 431	Contentious Politics
POLI SCI/ INTL ST 434	The Politics of Human Rights
POLI SCI/ INTL ST 439	The Comparative Study of Genocide
POLI SCI 463	Deception and Politics
POLI SCI/ GEN&WS 469	Women and Politics
POLI SCI 470	The First Amendment
POLI SCI 490	Study Abroad Topics in Political Science: American Government
POLI SCI 511	Campaign Finance
POLI SCI 515	Public Opinion
POLI SCI/ AFROAMER 519	African American Political Theory
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory
POLI SCI 659	Politics and Society: Contemporary Eastern Europe
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics

**Total Credits****16**

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA in all certificate courses
- At least 12 certificate credits must be completed on campus

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Develop an understanding of and appreciation for the methods and approaches in Political Science and their relevance to important theoretical and pragmatic questions.
2. Analyze different forms and practices of governance both democratic and non-democratic.
3. Argue effectively and defend propositions with intellectual integrity, while considering a range of alternative points of view and evidence.
4. Analyze relations among individuals, civil society, political institutions, and states.

5. Analyze the motivations and consequences of political decision-making and activities.

## ADVISING AND CAREERS

### ADVISING

Students who are declared or interested in the political science certificate have numerous advising resources available to them. The political science advising team is composed of professional and peer advisors who are excited to talk with students about everything from academic planning to professional development for future careers. Information on the political advising team, how to contact an advisor and how to schedule an appointment hours can be found on this website (<https://polisci.wisc.edu/politicalsciencecertificate/>).

### INTERNSHIPS

The Department of Political Science recognizes the importance of internships in helping students develop professional skills and explore potential career paths. Positions can vary depending on availability and students' interests, but recent sponsors have included the WI State Legislature, the Office of the Governor, Sierra Club, and numerous non-profit, media, lobbyist and policy organizations in Wisconsin and throughout the country. Please see our internship board (<https://polisci.wisc.edu/internship-board/>) for examples of the wide array of opportunities. Political Science certificate students can also get academic credit in conjunction with an internship by taking Poli Sci 315.

### ALUMNI MENTORING

Like internships, networking can be a valuable tool in opening professional doors and learning more about the professional value of the political certificate. The department often matches students with alumni mentors drawn from our Board of Visitors (<https://polisci.wisc.edu/board-of-visitors/>) and other graduates who can help them get started building a professional network, answer questions about a specific field, provide guidance in applying for jobs or preparing for interviews, and provide general career advice.

## PEOPLE

### Prof. Jon Pevehouse, Chair of the Department of Political Science

[jcpevehouse@wisc.edu](mailto:jcpevehouse@wisc.edu)

### Amy Gangl, Director of Undergraduate Studies

[agangl@wisc.edu](mailto:agangl@wisc.edu)

### Cassie Chulick, Academic Advisor

[cassie.chulick@wisc.edu](mailto:cassie.chulick@wisc.edu)

### Rachel Margolies, Undergraduate Advisor, Undergraduate Coordinator

[rachel.margolies@wisc.edu](mailto:rachel.margolies@wisc.edu)

## PSYCHOLOGY

The Psychology major is one of the largest majors in the College of Letters & Science, focusing on several areas in the field of Psychological Science: biological, clinical, cognition & cognitive neuroscience, perception, developmental, and social & personality.



The mission of the undergraduate program in psychology is to provide students with opportunities to:

- learn about the multiple content areas of scientific psychology
- develop the ability to think critically and quantitatively
- enhance communication skills in the classroom and in writing
- prepare for the most rigorous graduate and professional programs
- apply the science of psychology to the well-being of citizens of Wisconsin and the global community

Some students will go to graduate school and become the next generation of psychological scientists and educators who will create and disseminate new knowledge. Others will choose careers in other areas, including but not limited to business, medicine, law, education, and counseling. Through its strong interdisciplinary connections with the natural sciences, social sciences, humanities, and medical sciences, scientific psychology is positioned well to influence critical issues for society. Because all courses in psychology emphasize critical thinking and the analysis of research, the Undergraduate Program prepares students to take on the challenges of and fully participate in an increasingly complex, multicultural world.

## DEGREES/MAJORS/CERTIFICATES

- Psychology, B.A. (p. 1329)
- Psychology, B.S. (p. 1333)

## PEOPLE

### FACULTY AND INSTRUCTIONAL STAFF

**Professors:** Bennett (chair), Abramson, Alibali, Auger, Berridge, Brauer, Curtin, Davidson, Devine, Gernsbacher, Glasford, Green, Gooding, Harackiewicz, Marler, Niedenthal, Pollak, Postle, Rogers, Ryff, Saffran, Shutts

**Associate Professors:** Austerweil, Li, Lupyan, Saalman, Schloss, Walsh

**Assistant Professors:** Buttrick, Chadwick, Ferrigno, Hawkins, Jerald

**Instructional Staff:** Addington, Andrews, Caldwell, Coffey, Gallimore, Greenberg, Henriques, Jones, Konz, Pflum, Reinholtz, Van Rybroek, Winston

## PSYCHOLOGY, B.A.

The Psychology major is one of the largest majors in the College of Letters & Science, focusing on several areas in the field of Psychological Science: biological, clinical, cognition & cognitive neuroscience, perception, developmental, and social & personality.

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## HOW TO GET IN

Students who successfully complete PSYCH 202 (or equivalent) with a grade of C or better are eligible to declare the major.<sup>1</sup>

Please refer to the Department website for instructions on how to declare the major (<https://psych.wisc.edu/undergraduate-program/major/#declare-the-major>).

1

Equivalents include a score of 4 or higher on the IB Psychology exam or or a score of 4 or 5 on the AP Psychology exam.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The major requires the completion of the six categories below (Foundation, Biology, Breadth, Depth, Capstone and Electives) and a minimum of 30 credits in PSYCH (<https://guide.wisc.edu/courses/psych/>).

### FOUNDATION

Foundation courses provide a grounding in basic psychological facts and an understanding of the methodologies used to produce those facts. **Foundation courses are required** with **grades of C or better** in each course;

Code	Title	Credits
<b>Introductory Psychology—one course: <sup>1</sup></b>		<b>3-4</b>
PSYCH 202	Introduction to Psychology	
<b>Statistics—one course:</b>		<b>3</b>
PSYCH 210	Basic Statistics for Psychology	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Research Methods—one course:</b>		<b>4</b>
PSYCH 225	Research Methods	

### BIOLOGY

Foundational knowledge in biology is critical to the study of psychological science and the understanding of human and animal behavior, as well as the brain sciences.

Code	Title	Credits
<b>Introductory Biology—complete one of three tracks: <sup>2</sup></b>		
BIOLOGY/ ZOOLOGY 101	Animal Biology	3
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6

### BREADTH

Breadth courses familiarize students with the breadth of psychology in the following area groups: Biological, Clinical, Cognitive & Perceptual Science, Development, and Social & Personality. Complete one course from three different area groups for a total of three courses:

#### Biological

Code	Title	Credits
PSYCH 449	Animal Behavior	3-4
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3-4
PSYCH/ ZOOLOGY 523	Neurobiology	3

#### Clinical

Code	Title	Credits
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 405	Abnormal Psychology	3-4

## Cognitive and Perceptual Sciences

Code	Title	Credits
PSYCH 406	Psychology of Perception	3-4
PSYCH 413	Language, Mind, and Brain	3-4
PSYCH 414	Cognitive Psychology	3-4

## Developmental

Code	Title	Credits
PSYCH/SOC 453	Human Sexuality	4
PSYCH 460	Child Development	3-4
PSYCH 464	Adult Development and Aging	3

## Social and Personality

Code	Title	Credits
PSYCH 403	Psychology of Personality	3
PSYCH 428	Introduction to Cultural Psychology	3-4
PSYCH 456	Social Psychology	3-4
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3

## DEPTH

Depth courses allow students to engage in depth with material in specific content areas in psychology. Depth courses include both a lecture component and a required discussion/lab section for all students, and they help students develop a deeper understanding of particular areas of psychology. **Two courses** are required:

Code	Title	Credits
PSYCH 501	Depth Topic in Social Science (multiple separate topics offered each semester)	4
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 505	Depth Topic in Biological Science	4
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH 525	Cognition in Health and Society	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 532	Psychological Effects of the Internet	4

## CAPSTONE

Capstone courses allow students to explore current research in psychology in a seminar setting. **One course** is required:

Code	Title	Credits
PSYCH 601	Current Topics in Psychology (many separate topics each semester)	3

PSYCH 602	Intermediate Statistics for Psychology	3
PSYCH 603	Epigenetics and the Brain	3
PSYCH 606	Hormones and Behavior	3
PSYCH 607	Introduction to Psychotherapy	3
PSYCH 612	Neuropharmacology	3

## ELECTIVES

In addition to completion of the courses required above, students must complete at least **3 additional credits** in PSYCH (<https://guide.wisc.edu/courses/psych/>) at the **300-level and above**. Students may complete any additional PSYCH course(s), including courses from: the Breadth, Depth, or Capstone areas, or directed/independent study and mentored research.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all PSYCH and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>3</sup>
- 15 credits in PSYCH, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may apply for Honors in the Psychology Major in consultation with the psychology undergraduate advisor(s). Decisions on admission to the Honors in the Major in Psychology program are made on a rolling basis throughout the year by a committee of psychology faculty. Overall, criteria emphasize demonstrated ability and commitment to becoming a first-rate scholar. Performance in coursework at the university, particularly Honors courses in psychology and related fields, is among the criteria for admission. Consistent with the philosophy that there is more to honors scholarship than distinguished grades, commitment to excellence in the science of psychology, evidence of broad scholarship (including mathematics and sciences), and evidence of involvement within the university and the broader community enhance students' credentials.

## HONORS IN THE PSYCHOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Psychology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all PSYCH and major courses
- Complete the following courses with Honors and a grade of B or higher:
  - PSYCH 380 (Junior year) or two semesters of PSYCH 686 Senior Thesis Seminar in Psychology (requires Fall and Spring enrollment)
  - Three Psychology Breadth and/or Depth courses OR Two Psychology Breadth and/or Depth courses and one of the following: PSYCH 210 Basic Statistics for Psychology or PSYCH 225 Research Methods
  - A two-semester Senior Honors Thesis in PSYCH 681 and PSYCH 682 for a total of 6 credits.

## FOOTNOTES

1

A score of 4 or higher on the IB Psychology exam or a score of 4 or 5 on the AP Psychology exam.

2

A score of 4 or better on the IB Biology exam, or a score of 4 or 5 on the AP Biology exam will satisfy the Introductory Biology requirement.

3

PSYCH 300–699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Gain an appreciation for the contributions that psychology is making to our understanding of human and animal behavior.
2. Learn to analyze and construct arguments, define and solve problems, and understand and apply scientific reasoning.
3. Learn to communicate their ideas in a clear, organized, and compelling way.
4. Gain a specific understanding of how to use data and research methodology in their critical thinking.
5. Acquire an appreciation of and respect for individual differences and diversity of experiences and background.
6. Acquire the statistical and research skills used in the behavioral sciences.
7. Have the opportunity to evaluate the diverse professional opportunities in psychology.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based

on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Psych Breadth Course	3
Quantitative Reasoning A		3 ZOOLOGY/ BIOLOGY 101 <sup>1</sup>	3
Foreign Language (if required)		3 Ethnic Studies	3
PSYCH 202		3–4 Literature Breadth	3
Physical Science Breadth		3 Electives	3
		<b>15</b>	<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
Psych Breadth Course		3 PSYCH 210 (satisfies QR-B) <sup>2</sup>	3
Literature Breadth course		3 INTER-LS 210 (optional)	1
Physical Science Breadth (if needed)		3 Psych Breadth Course	3
Electives		6 Humanities Breadth Electives	3 5
		<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
PSYCH 225 (satisfies Com-B)		4 Psych Depth Course (may be taken in Fourth Year)	4
Humanities Breadth		3 Psych Elective (3 PSYCH elective credits needed)	3
I/A Comp Sci, Math, or Stats (if needed for the BS)		3 Physical Science Breadth (if needed for BS)	3
Electives		5 Electives	5
		<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Psych Depth Course (Fall and/or Spring)		4 Electives	15
Psych Capstone (Fall or Spring)		3	
I/A Comp Sci, Math, or Stats (if required for the BS)		3	
Electives		5	
		<b>15</b>	<b>15</b>

**Total Credits 120**

1

Other courses satisfy the Biology requirement for this major. Consult the Requirements page and adjust your plan accordingly.

2

Or accepted Statistics course (STAT 302, STAT 324, or STAT 371); We recommend a Psych Breadth course before completing the statistics requirement.

## ADVISING AND CAREERS

### ADVISING

**All current UW-Madison undergraduate students interested in the psychology major are welcome to schedule an advising appointment with a psychology advisor.** Advising appointments can be made through the Starfish scheduling tool. Please visit [psych.wisc.edu](http://psych.wisc.edu) (<http://psych.wisc.edu>) → undergraduate program → schedule an advising appointment.

For more information about psychology advising visit [psych.wisc.edu](http://psych.wisc.edu) (<http://psych.wisc.edu>) → undergraduate program → advising.

**Are you a prospective student?** The Department of Psychology welcomes prospective students to attend our Information Sessions held throughout the year. Please visit the Office of Admissions' Visit Bucky website (<https://www.admissions.wisc.edu/visitbucky/>) for information on dates and times of our Psychology Major Information Sessions.

### CAREERS

Students who major in Psychology enter a wide variety of careers, both with and without education beyond a Bachelor's degree. The American Psychological Association (APA) with the Center for Workforce Studies (CWS) has recent statistics on What do you do with a Psychology degree? CWS Data Tool: Careers in Psychology (<https://www.apa.org/workforce/data-tools/careers-psychology/>).

There are several campus resources to guide students in their career search. Undecided students who are unsure about their desired major/career are encouraged to visit the Career Exploration Center (<https://cec.ccas.wisc.edu/>). The SuccessWorks at the College of Letters & Science (<https://successworks.wisc.edu/>) offers a variety of opportunities ranging from career assessment, resume writing, interviewing techniques, internships, graduate school, and more.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY AND INSTRUCTIONAL STAFF

**Professors:** Bennett (chair), Abramson, Alibali, Auger, Berridge, Brauer, Curtin, Davidson, Devine, Gernsbacher, Glasford, Green, Gooding, Harackiewicz, Marler, Niedenthal, Pollak, Postle, Rogers, Ryff, Saffran, Shutts

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in psychology emphasize critical thinking and the analysis of research, the Undergraduate Program prepares students to take on the challenges of and fully participate in an increasingly complex, multicultural world.

## HOW TO GET IN

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Please refer to the Department website for instructions on how to declare the major (<https://psych.wisc.edu/undergraduate-program/major/#declare-the-major>).

1

Equivalents include a score of 4 or higher on the IB Psychology exam or or a score of 4 or 5 on the AP Psychology exam.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

The major requires the completion of the six categories below (Foundation, Biology, Breadth, Depth, Capstone and Electives) and a minimum of 30 credits in PSYCH (<https://guide.wisc.edu/courses/psych/>).

#### FOUNDATION

Foundation courses provide a grounding in basic psychological facts and an understanding of the methodologies used to produce those facts. **Foundation courses are required** with **grades of C or better** in each course;

Code	Title	Credits
<b>Introductory Psychology—one course:<sup>1</sup></b>		<b>3–4</b>
PSYCH 202	Introduction to Psychology	
<b>Statistics—one course:</b>		<b>3</b>
PSYCH 210	Basic Statistics for Psychology	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	

STAT 371 Introductory Applied Statistics for  
the Life Sciences

**Research Methods—one course: 4**

PSYCH 225 Research Methods

## BIOLOGY

Foundational knowledge in biology is critical to the study of psychological science and the understanding of human and animal behavior, as well as the brain sciences.

Code	Title	Credits
<b>Introductory Biology—complete one of three tracks: 2</b>		
BIOLOGY/ ZOOLOGY 101	Animal Biology	3
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6

## BREADTH

Breadth courses familiarize students with the breadth of psychology in the following area groups: Biological, Clinical, Cognitive & Perceptual Science, Development, and Social & Personality. Complete one course from three different area groups for a total of three courses:

### Biological

Code	Title	Credits
PSYCH 449	Animal Behavior	3-4
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3-4
PSYCH/ ZOOLOGY 523	Neurobiology	3

### Clinical

Code	Title	Credits
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 405	Abnormal Psychology	3-4

### Cognitive and Perceptual Sciences

Code	Title	Credits
PSYCH 406	Psychology of Perception	3-4
PSYCH 413	Language, Mind, and Brain	3-4
PSYCH 414	Cognitive Psychology	3-4

### Developmental

Code	Title	Credits
PSYCH/SOC 453	Human Sexuality	4
PSYCH 460	Child Development	3-4
PSYCH 464	Adult Development and Aging	3

### Social and Personality

Code	Title	Credits
PSYCH 403	Psychology of Personality	3
PSYCH 428	Introduction to Cultural Psychology	3-4
PSYCH 456	Social Psychology	3-4

PSYCH/  
GEN&WS 522 Psychology of Women and Gender 3

## DEPTH

Depth courses allow students to engage in depth with material in specific content areas in psychology. Depth courses include both a lecture component and a required discussion/lab section for all students, and they help students develop a deeper understanding of particular areas of psychology. **Two courses** are required:

Code	Title	Credits
PSYCH 501	Depth Topic in Social Science (multiple separate topics offered each semester)	4
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 505	Depth Topic in Biological Science	4
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 520	How We Read: The Science of Reading and Its Educational Implications	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH 525	Cognition in Health and Society	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 532	Psychological Effects of the Internet	4

## CAPSTONE

Capstone courses allow students to explore current research in psychology in a seminar setting. **One course** is required:

Code	Title	Credits
PSYCH 601	Current Topics in Psychology (many separate topics each semester)	3
PSYCH 602	Intermediate Statistics for Psychology	3
PSYCH 603	Epigenetics and the Brain	3
PSYCH 606	Hormones and Behavior	3
PSYCH 607	Introduction to Psychotherapy	3
PSYCH 612	Neuropharmacology	3

## ELECTIVES

In addition to completion of the courses required above, students must complete at least **3 additional credits** in PSYCH (<https://guide.wisc.edu/courses/psych/>) at the **300-level and above**. Students may complete any additional PSYCH course(s), including courses from: the Breadth, Depth, or Capstone areas, or directed/independent study and mentored research.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all PSYCH and major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>3</sup>
- 15 credits in PSYCH, taken on the UW–Madison campus

## HONORS IN THE MAJOR

Students may apply for Honors in the Psychology Major in consultation with the psychology undergraduate advisor(s). Decisions on admission to the Honors in the Major in Psychology program are made on a rolling basis throughout the year by a committee of psychology faculty. Overall, criteria emphasize demonstrated ability and commitment to becoming a first-rate scholar. Performance in coursework at the university, particularly Honors courses in psychology and related fields, is among the criteria for admission. Consistent with the philosophy that there is more to honors scholarship than distinguished grades, commitment to excellence in the science of psychology, evidence of broad scholarship (including mathematics and sciences), and evidence of involvement within the university and the broader community enhance students' credentials.

## HONORS IN THE PSYCHOLOGY MAJOR REQUIREMENTS

To earn Honors in the Major in Psychology, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in all PSYCH and major courses
- Complete the following courses with Honors and a grade of B or higher:
  - PSYCH 380 (Junior year) or two semesters of PSYCH 686 Senior Thesis Seminar in Psychology (requires Fall and Spring enrollment)
  - Three Psychology Breadth and/or Depth courses OR Two Psychology Breadth and/or Depth courses and one of the following: PSYCH 210 Basic Statistics for Psychology or PSYCH 225 Research Methods
  - A two-semester Senior Honors Thesis in PSYCH 681 and PSYCH 682 for a total of 6 credits.

## FOOTNOTES

1

A score of 4 or higher on the IB Psychology exam or a score of 4 or 5 on the AP Psychology exam.

2

A score of 4 or better on the IB Biology exam, or a score of 4 or 5 on the AP Biology exam will satisfy the Introductory Biology requirement.

3

PSYCH 300–699 are upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Gain an appreciation for the contributions that psychology is making to our understanding of human and animal behavior.
2. Learn to analyze and construct arguments, define and solve problems, and understand and apply scientific reasoning.
3. Learn to communicate their ideas in a clear, organized, and compelling way.
4. Gain a specific understanding of how to use data and research methodology in their critical thinking.
5. Acquire an appreciation of and respect for individual differences and diversity of experiences and background.
6. Acquire the statistical and research skills used in the behavioral sciences.
7. Have the opportunity to evaluate the diverse professional opportunities in psychology.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 Psych Breadth Course	3
Quantitative Reasoning A		3 ZOOLOGY/ BIOLOGY 101 <sup>1</sup>	3



Foreign Language (if required)	3 Ethnic Studies	3
PSYCH 202	3-4 Literature Breadth	3
Physical Science Breadth	3 Electives	3
	<b>15</b>	<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
Psych Breadth Course	3	PSYCH 210 (satisfies QR-B) <sup>2</sup>	3
Literature Breadth course	3	INTER-LS 210 (optional)	1
Physical Science Breadth (if needed)	3	Psych Breadth Course	3
Electives	6	Humanities Breadth Electives	3
			5
	<b>15</b>		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
PSYCH 225 (satisfies Com-B)	4	Psych Depth Course (may be taken in Fourth Year)	4
Humanities Breadth	3	Psych Elective (3 PSYCH elective credits needed)	3
I/A Comp Sci, Math, or Stats (if needed for the BS)	3	Physical Science Breadth (if needed for BS)	3
Electives	5	Electives	5
	<b>15</b>		<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Psych Depth Course (Fall and/or Spring)	4	Electives	15
Psych Capstone (Fall or Spring)	3		
I/A Comp Sci, Math, or Stats (if required for the BS)	3		
Electives	5		
	<b>15</b>		<b>15</b>

**Total Credits 120**

1

Other courses satisfy the Biology requirement for this major. Consult the Requirements page and adjust your plan accordingly.

2

Or accepted Statistics course (STAT 302, STAT 324, or STAT 371); We recommend a Psych Breadth course before completing the statistics requirement.

## ADVISING AND CAREERS

### ADVISING

**All current UW–Madison undergraduate students interested in the psychology major are welcome to schedule an advising appointment with a psychology advisor.** Advising appointments can be made through the Starfish scheduling tool. Please visit [psych.wisc.edu](http://psych.wisc.edu) (<http://psych.wisc.edu/>) → undergraduate program → schedule an advising appointment.

For more information about psychology advising visit [psych.wisc.edu](http://psych.wisc.edu) (<http://psych.wisc.edu/>) → undergraduate program → advising.

**Are you a prospective student?** The Department of Psychology welcomes prospective students to attend our Information Sessions held throughout the year. Please visit the Office of Admissions' Visit Bucky website (<https://www.admissions.wisc.edu/visitbucky/>) for information on dates and times of our Psychology Major Information Sessions.

### CAREERS

Students who major in Psychology enter a wide variety of careers, both with and without education beyond a Bachelor's degree. The American Psychological Association (APA) with the Center for Workforce Studies (CWS) has recent statistics on What do you do with a Psychology degree? CWS Data Tool: Careers in Psychology (<https://www.apa.org/workforce/data-tools/careers-psychology/>).

There are several campus resources to guide students in their career search. Undecided students who are unsure about their desired major/career are encouraged to visit the Career Exploration Center (<https://cec.ccas.wisc.edu/>). The SuccessWorks at the College of Letters & Science (<https://successworks.wisc.edu/>) offers a variety of opportunities ranging from career assessment, resume writing, interviewing techniques, internships, graduate school, and more.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:

- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
- INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### FACULTY AND INSTRUCTIONAL STAFF

**Professors:** Bennett (chair), Abramson, Alibali, Auger, Berridge, Brauer, Curtin, Davidson, Devine, Gernsbacher, Glasford, Green, Gooding, Harackiewicz, Marler, Niedenthal, Pollak, Postle, Rogers, Ryff, Saffran, Shutts

**Associate Professors:** Austerweil, Li, Lupyan, Saalman, Schloss, Walsh

**Assistant Professors:** Buttrick, Chadwick, Ferrigno, Hawkins, Jerald

**Instructional Staff:** Addington, Andrews, Caldwell, Coffey, Gallimore, Greenberg, Henriques, Jones, Konz, Pflum, Reinholtz, Van Rybroek, Winston

## RELIGIOUS STUDIES

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important preparation for thinking, communicating and functioning professionally and personally in a complex, multidimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their

home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st/](http://guide.wisc.edu/courses/relig_st/)) in the *Guide*.

## DEGREES/MAJORS/CERTIFICATES

- Religious Studies, B.A. (p. 1338)
- Religious Studies, B.S. (p. 1343)
- Religious Studies, Certificate (p. 1347)

## PEOPLE

### PROFESSORS

Bell, Bowie, Brenner, Bühnemann, Chamberlain, Cohen, Dale, DuBois, Dunne, Gade, Hansen, Hardin, Hildner, Howard, Hsia, Kosar, Langer, Livorni, Loudon, Nadler, Ohnuki-Tierney, Phillips, Rosenblum, Schenck, Schweber, Stanford Friedman, Thompson, Wandel, Wink, Wolf, Zaeske

### ASSOCIATE PROFESSORS

Beneker, Cerulli, Hutton, Livanos, Ridgely, Shelef, Shoemaker, Thal, Todorovic

### ASSISTANT PROFESSORS

Chamedes, Hollander, Pruitt, Rock-Singer, Stern

### DISTINGUISHED FACULTY ASSOCIATE

Brown

### FACULTY ASSOCIATES

Mellor, Norman, Rosenhagen

### ASSOCIATE FACULTY ASSOCIATE

Whelan

### LECTURER

Carlsson

### FACULTY DIVERSITY LIAISON

Program Director Rosenblum

## RELIGIOUS STUDIES, B.A.

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

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## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st/](http://guide.wisc.edu/courses/relig_st/)) in the *Guide*.

## HOW TO GET IN

Students who wish to declare their intention to major in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

Students declared in the Religious Studies certificate may not be declared in the Religious Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
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L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
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Major	Declare and complete at least one major.
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Total Credits	Complete at least 120 credits.
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UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
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Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>
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## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must complete 30 credits in Religious Studies course work, to include:

Code	Title	Credits
<b>Gateway (Complete one course:)</b>		
<b>3</b>		
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
RELIG ST 103	Exploring Religion and Sexuality	
RELIG ST/ FOLKLORE 104	Sacred Places and Journeys	
RELIG ST 105	Religion and Popular Culture-Local and Global	
<b>Middle Sequence</b>		
<b>15</b>		
RELIG ST 300	America and Religions	
RELIG ST 302	Christianity: Interpretation and Practice	
RELIG ST/ GEN&WS 305	Women, Gender and Religion	
RELIG ST/ASIAN/ HISTORY 308	Introduction to Buddhism	
RELIG ST/ HISTORY/ MEDIEVAL 309	The Crusades: Christianity and Islam	
RELIG ST 311	Sects and Cults	
RELIG ST 327	Christianity and the Almighty Dollar	
RELIG ST/ JEWISH/ LITTRANS 328	Classical Rabbinic Literature in Translation	
RELIG ST/ HIST SCI/ MED HIST 331	Science, Medicine and Religion	
RELIG ST/ CLASSICS/ HEBR-BIB/ JEWISH/ LITTRANS 332	Prophets of the Bible	
RELIG ST 333	Early Christian Literature: Matthew-Revelation	
RELIG ST/ CLASSICS/ JEWISH 335	King David in History and Tradition	
RELIG ST/ JEWISH 340	The American Jewish Life of DNA	
RELIG ST/ FOLKLORE/ MEDIEVAL/ SCAND ST 342	Nordic Mythology	

RELIG ST/ ANTHRO 343	Anthropology of Religion
RELIG ST/ CLASSICS/ JEWISH 346	Jewish Literature of the Greco-Roman Period
RELIG ST/ ASIAN 350	Introduction to Taoism
RELIG ST/ FOLKLORE 352	Shamanism
RELIG ST/ ASIAN 306	Hinduism
RELIG ST/ JEWISH 322	The Sabbath
RELIG ST/ ENVIR ST/ HIST SCI 356	Islam, Science & Technology, and the Environment
RELIG ST/ FOLKLORE 359	Myth
RELIG ST/ENGL/ HISTORY 360	The Anglo-Saxons
RELIG ST 361	Early Christian Literature: Pauline Christianity
RELIG ST/ AFRICAN/ ASIAN 370	Islam: Religion and Culture
RELIG ST/ ART HIST 373	Great Cities of Islam
RELIG ST/ COM ARTS 374	The Rhetoric of Religion
RELIG ST 400	Topics in Religious Studies - Humanities
RELIG ST 401	Topics in Religious Studies - Social Studies
RELIG ST 403	Topics in Religious Studies-US Ethnic Studies
RELIG ST/ AFROAMER 404	African American Religions
RELIG ST 406	The Amish
RELIG ST 410	Children and Religion in America
RELIG ST/ HISTORY 411	The Enlightenment and Its Critics
RELIG ST/ AFRICAN 414	Islam in Africa and the Diaspora
RELIG ST 420	Religious Studies Colloquium
RELIG ST/ POLI SCI 433	Religion and Politics
RELIG ST/ ENGL 434	Milton
RELIG ST/ JEWISH/ PHILOS 435	Jewish Philosophy from Antiquity to the Seventeenth Century
RELIG ST/ASIAN/ HISTORY 438	Buddhism and Society in Southeast Asian History
RELIG ST/ ITALIAN/ MEDIEVAL 440	Poverty, Ecology and the Arts: St. Francis of Assisi

RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)
RELIG ST/ ASIAN 466	Buddhist Thought
RELIG ST/ ASIAN 473	Meditation in Indian Buddhism and Hinduism
RELIG ST 475	Religion, Global and Public Health
RELIG ST/ ART HIST 478	Art and Religious Practice in Medieval Japan
RELIG ST 500	Advanced Topics in Religious Studies
RELIG ST/ PHILOS 501	Philosophy of Religion
RELIG ST/ PHILOS 502	Special Topics in Philosophy of Religion
RELIG ST/ CURRIC/ ED POL 516	Religion and Public Education
RELIG ST/ CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean
RELIG ST/ ASIAN 650	Proseminar in Buddhist Thought

**Capstone**

RELIG ST 600	Religion in Critical Perspective	3
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**Electives: Any course from RELIG ST 100 through 699** **9**

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all RELIG ST and major courses
- 2.000 GPA on 15 Upper-Level credits for the major, taken in residence<sup>1</sup>
- 15 credits in RELIG ST or the major, taken on campus

<sup>1</sup>

Courses counting as upper-level in the major are any RELIG ST courses at the Intermediate or Advanced level.

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Religious Studies undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and these additional requirements:

- Minimum 3.300 University GPA
- Minimum 3.500 GPA in all RELIG ST and all major courses
- Complete 12 credits, taken for Honors, with individual grades of B or better, to include:
  - RELIG ST 600
  - RELIG ST 681 and RELIG ST 682 for at least 6 credits.
  - 3 additional credits of Intermediate or Advanced level RELIG ST and major courses

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Proficiency in close reading, interpretation, and written and oral analysis.
2. Proficiency in accessing, appraising, and utilizing a variety of resources and methods for research across disciplinary lines.
3. Proficiency in categorizing, analyzing and comparing diverse systems of value and belief in a variety of contexts.
4. Global and local religious literacy; identifying, evaluating, and interpreting the interrelationships and impact of religious worldviews and communities in Wisconsin, the United States and globally.
5. Ability to conduct and present sustained research on primary sources using methodologies/analysis of religious studies culminating in the senior capstone project.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
RELIG ST 101, 102, 103, 104, or 105		3 RELIG ST course meeting Literature Breadth <sup>1</sup>	3
Communication A		3 RELIG ST elective	3

Quantitative Reasoning A	3-4 Biological Science Breadth	3
Foreign Language (if needed)	4 Social Science Breadth	3
Elective	3 Elective	3
<b>16</b>		<b>15</b>

**Second Year**

Fall	Credits	Spring	Credits
RELIG ST course with Literature Breadth <sup>1</sup>	3	RELIG ST/ILS 234 or 236 (meets Communication B requirement)	3
Quantitative Reasoning B	3	RELIG ST/FOLKLORE 352, 403, or 404 (meets Ethnic Studies requirement)	3
Social Science Breadth	3	Physical Science Breadth	3
Elective	4	I/A COMP SCI, MATH or STAT (if needed for B.S.)	3
INTER-LS 210	1	Elective	4
<b>14</b>		<b>16</b>	

**Third Year**

Fall	Credits	Spring	Credits
RELIG ST Elective (numbered 300 or above)	6	RELIG ST Elective (numbered 300 or above)	9
Social Science Breadth	3	Science Breadth	3
I/A COMP SCI, MATH or STAT (if needed for B.S.)	3	Social Science Breadth	3
Elective	4		
<b>16</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
RELIG ST 600	3	RELIG ST Electives	6
RELIG ST Elective (numbered 300 or above)	3	Elective	9
Science Breadth	3		
Electives	4		
<b>13</b>		<b>15</b>	

**Total Credits 120**

1

Consult the Course Search & Enroll tool for a comprehensive list of RELIG ST courses designated for Literature Breadth.

## ADVISING AND CAREERS

### ADVISING

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu) to meet with her. Students are encouraged to meet with Dr. Norman early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning or study abroad opportunities in associate with the major or certificate.

### CAREERS

Religious studies engages a variety of professional disciplines and provides important preparation for thinking, communicating and functioning professionally in a complex, multi-dimensional world.

Religious studies sponsors workshops and other career exploration vehicles, often in collaboration with SuccessWorks at the College of Letters & Science, to aid students in articulating the value of religious studies for their career preparation. Student-developed capstone projects in religious studies often make specific connections to experiential learning and career preparation in a range of fields. Talk with Dr. Norman about possibilities for combining internships and other forms of preprofessional training with the major and certificate.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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### PROFESSORS

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Chamedes, Hollander, Pruitt, Rock-Singer, Stern

## DISTINGUISHED FACULTY ASSOCIATE

Brown

## FACULTY ASSOCIATES

Mellor, Norman, Rosenhagen

## ASSOCIATE FACULTY ASSOCIATE

Whelan

## LECTURER

Carlsson

## FACULTY DIVERSITY LIAISON

Program Director Rosenblum

# RELIGIOUS STUDIES, B.S.

Religious studies is an academic discipline that looks at religious phenomena worldwide from a variety of angles in order to understand the many roles that religion plays in human life. To this end, students of religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

Some ways of studying religion emphasize understanding religions on their own terms, other ways use comparative methods to discern differences and similarities between religions. Students of religion also study ways that people use religious resources to make meaning outside the boundaries of religious institutions and identities. Above all, the field of religious studies requires a willingness to explore different ways of interpreting human life and diligent effort to develop understanding of how religious ideas, symbols, rituals and spaces serve as resources for people in a variety of contexts as they make sense of and live out their lives in the world. Thus, religious studies provides important preparation for thinking, communicating and functioning professionally and personally in a complex, multidimensional world.

## COURSES

Because religious studies is an interdisciplinary program drawing upon many departments, some courses may have prerequisites in their home departments that must be fulfilled even though the prerequisites themselves have no bearing on progress within the religious studies major. Students are responsible for ensuring that they have met all the prerequisites to enter a course before they enroll in it. The current list of courses can be found in the Religious Studies course list page ([http://guide.wisc.edu/courses/relig\\_st/](http://guide.wisc.edu/courses/relig_st/)) in the *Guide*.

## HOW TO GET IN

Students who wish to declare their intention to major in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

Students declared in the Religious Studies certificate may not be declared in the Religious Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

## BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW-Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Students must complete 30 credits in Religious Studies course work, to include:

Code	Title	Credits
<b>Gateway (Complete one course:)</b>		<b>3</b>
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
RELIG ST 103	Exploring Religion and Sexuality	
RELIG ST/ FOLKLORE 104	Sacred Places and Journeys	
RELIG ST 105	Religion and Popular Culture-Local and Global	
<b>Middle Sequence</b>		<b>15</b>
RELIG ST 300	America and Religions	
RELIG ST 302	Christianity: Interpretation and Practice	
RELIG ST/ GEN&WS 305	Women, Gender and Religion	

RELIG ST/ASIAN/  
HISTORY 308

Introduction to Buddhism

RELIG ST/  
HISTORY/  
MEDIEVAL 309

The Crusades: Christianity and Islam

RELIG ST 311

Sects and Cults

RELIG ST 327

Christianity and the Almighty Dollar

RELIG ST/  
JEWISH/  
LITTRANS 328

Classical Rabbinic Literature in Translation

RELIG ST/  
HIST SCI/  
MED HIST 331

Science, Medicine and Religion

RELIG ST/  
CLASSICS/  
HEBR-BIB/  
JEWISH/  
LITTRANS 332

Prophets of the Bible

RELIG ST 333

Early Christian Literature: Matthew-Revelation

RELIG ST/  
CLASSICS/  
JEWISH 335

King David in History and Tradition

RELIG ST/  
JEWISH 340

The American Jewish Life of DNA

RELIG ST/  
FOLKLORE/  
MEDIEVAL/  
SCAND ST 342

Nordic Mythology

RELIG ST/  
ANTHRO 343

Anthropology of Religion

RELIG ST/  
CLASSICS/  
JEWISH 346

Jewish Literature of the Greco-Roman Period

RELIG ST/  
ASIAN 350

Introduction to Taoism

RELIG ST/  
FOLKLORE 352

Shamanism

RELIG ST/  
ASIAN 306

Hinduism

RELIG ST/  
JEWISH 322

The Sabbath

RELIG ST/  
ENVIR ST/  
HIST SCI 356

Islam, Science & Technology, and the Environment

RELIG ST/  
FOLKLORE 359

Myth

RELIG ST/ENGL/  
HISTORY 360

The Anglo-Saxons

RELIG ST 361

Early Christian Literature: Pauline Christianity

RELIG ST/  
AFRICAN/  
ASIAN 370

Islam: Religion and Culture

RELIG ST/  
ART HIST 373

Great Cities of Islam



RELIG ST/ COM ARTS 374	The Rhetoric of Religion	
RELIG ST 400	Topics in Religious Studies - Humanities	
RELIG ST 401	Topics in Religious Studies - Social Studies	
RELIG ST 403	Topics in Religious Studies-US Ethnic Studies	
RELIG ST/ AFROAMER 404	African American Religions	
RELIG ST 406	The Amish	
RELIG ST 410	Children and Religion in America	
RELIG ST/ HISTORY 411	The Enlightenment and Its Critics	
RELIG ST/ AFRICAN 414	Islam in Africa and the Diaspora	
RELIG ST 420	Religious Studies Colloquium	
RELIG ST/ POLI SCI 433	Religion and Politics	
RELIG ST/ ENGL 434	Milton	
RELIG ST/ JEWISH/ PHILOS 435	Jewish Philosophy from Antiquity to the Seventeenth Century	
RELIG ST/ASIAN/ HISTORY 438	Buddhism and Society in Southeast Asian History	
RELIG ST/ ITALIAN/ MEDIEVAL 440	Poverty, Ecology and the Arts: St. Francis of Assisi	
RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)	
RELIG ST/ ASIAN 466	Buddhist Thought	
RELIG ST/ ASIAN 473	Meditation in Indian Buddhism and Hinduism	
RELIG ST 475	Religion, Global and Public Health	
RELIG ST/ ART HIST 478	Art and Religious Practice in Medieval Japan	
RELIG ST 500	Advanced Topics in Religious Studies	
RELIG ST/ PHILOS 501	Philosophy of Religion	
RELIG ST/ PHILOS 502	Special Topics in Philosophy of Religion	
RELIG ST/ CURRIC/ ED POL 516	Religion and Public Education	
RELIG ST/ CLASSICS/ HISTORY 517	Religions of the Ancient Mediterranean	
RELIG ST/ ASIAN 650	Proseminar in Buddhist Thought	
<b>Capstone</b>		
RELIG ST 600	Religion in Critical Perspective	3

**Electives: Any course from RELIG ST 100 through 699** **9**

**Total Credits** **30**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all RELIG ST and major courses
- 2.000 GPA on 15 Upper-Level credits for the major, taken in residence<sup>1</sup>
- 15 credits in RELIG ST or the major, taken on campus

1

Courses counting as upper-level in the major are any RELIG ST courses at the Intermediate or Advanced level.

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Religious Studies undergraduate advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and these additional requirements:

- Minimum 3.300 University GPA
- Minimum 3.500 GPA in all RELIG ST and all major courses
- Complete 12 credits, taken for Honors, with individual grades of B or better, to include:
  - RELIG ST 600
  - RELIG ST 681 and RELIG ST 682 for at least 6 credits.
  - 3 additional credits of Intermediate or Advanced level RELIG ST and major courses

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Proficiency in close reading, interpretation, and written and oral analysis.

2. Proficiency in accessing, appraising, and utilizing a variety of resources and methods for research across disciplinary lines.
3. Proficiency in categorizing, analyzing and comparing diverse systems of value and belief in a variety of contexts.
4. Global and local religious literacy; identifying, evaluating, and interpreting the interrelationships and impact of religious worldviews and communities in Wisconsin, the United States and globally.
5. Ability to conduct and present sustained research on primary sources using methodologies/analysis of religious studies culminating in the senior capstone project.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
RELIG ST 101, 102, 103, 104, or 105	3	RELIG ST course meeting Literature Breadth <sup>1</sup>	3
Communication A	3	RELIG ST elective	3
Quantitative Reasoning A	3-4	Biological Science Breadth	3
Foreign Language (if needed)	4	Social Science Breadth	3
Elective	3	Elective	3
	<b>16</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
RELIG ST course with Literature Breadth <sup>1</sup>	3	RELIG ST/ILS 234 or 236 (meets Communication B requirement)	3
Quantitative Reasoning B	3	RELIG ST/FOLKLORE 352, 403, or 404 (meets Ethnic Studies requirement)	3
Social Science Breadth	3	Physical Science Breadth	3
Elective	4	I/A COMP SCI, MATH or STAT (if needed for B.S.)	3
INTER-LS 210	1	Elective	4
	<b>14</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
RELIG ST Elective (numbered 300 or above)	6	RELIG ST Elective (numbered 300 or above)	9

Social Science Breadth	3	Science Breadth	3
I/A COMP SCI, MATH or STAT (if needed for B.S.)	3	Social Science Breadth	3
Elective	4		
	<b>16</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
RELIG ST 600	3	RELIG ST Electives	6
RELIG ST Elective (numbered 300 or above)	3	Elective	9
Science Breadth	3		
Electives	4		
	<b>13</b>		<b>15</b>

#### Total Credits 120

1

Consult the Course Search & Enroll tool for a comprehensive list of RELIG ST courses designated for Literature Breadth.

## ADVISING AND CAREERS

### ADVISING

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### CAREERS

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## RELIGIOUS STUDIES, CERTIFICATE

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religion learn to use a variety of theoretical analyses and methods. These include historical methods to understand how religions develop in time; critical literary methods to understand religious ideas; aesthetic methods to understand religious art and material culture; social-scientific methods to understand the relationship between religion, society and culture. Religious studies can also engage a variety of professional disciplines in analysis of how religion functions in economic, educational or political contexts, healthcare and scientific research, to name some examples.

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## HOW TO GET IN

Students who wish to declare their intention to major or earn a certificate in religious studies must meet with the undergraduate advisor during regular office hours or by making an appointment. Students are encouraged to do this early in their academic careers in order to plan for successful completion and take advantage of opportunities such as Honors, special research, internship, service learning, or study abroad opportunities in associate with the major or certificate.

Dr. Corrie Norman is the undergraduate advisor and Honors in the Major advisor. Contact her by email at [cenorman@wisc.edu](mailto:cenorman@wisc.edu).

Students pursuing the Religious Studies Certificate may not be declared in the Religious Studies major at the same time. Students who do wish to declare this major must first cancel their declaration in the Religious Studies Certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE IN RELIGIOUS STUDIES

A certificate in religious studies is available to all undergraduates and special students studying at UW-Madison. To earn the certificate, students must complete 15 credits from:

Code	Title	Credits
Gateway Courses, Select one of the following:		3
RELIG ST 101	Religion in Global Perspective	
RELIG ST 102	Exploring Religion in Sickness and Health	
RELIG ST 103	Exploring Religion and Sexuality	
RELIG ST/ FOLKLORE 104	Sacred Places and Journeys	
RELIG ST 105	Religion and Popular Culture-Local and Global	
Capstone Course:		
RELIG ST 600	Religion in Critical Perspective	3
Additional Courses:		9
Select an additional 9 credits in RELIG ST courses to bring total credits to at least 15 credits. To view additional courses, follow the link below to the Religious Studies course list page in the Guide.		
Religious Studies course offerings ( <a href="http://guide.wisc.edu/courses/relig_st/">http://guide.wisc.edu/courses/relig_st/</a> )		

**Total Credits** **15**

## RESIDENCE & QUALITY OF WORK

- Minimum 2.000 GPA in all RELIG ST and certificate courses.
- At least 9 credits for the certificate must be earned in residence.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW-Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. Proficiency in close reading, interpretation, and written and oral analysis.
2. Proficiency in accessing, appraising, and utilizing a variety of resources and methods for research across disciplinary lines.
3. Proficiency in categorizing, analyzing and comparing diverse systems of value and belief in a variety of contexts.
4. Global and local religious literacy; identifying, evaluating, and interpreting the interrelationships and impact of religious worldviews and communities in Wisconsin, the United States and globally.

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## SANDRA ROSENBAUM SCHOOL OF SOCIAL WORK

Social work's special contribution rests on an established body of knowledge, values and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities.

Undergraduates in the Sandra Rosenbaum School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts.

Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers areas such as aging, family and child welfare, poverty, mental health, developmental disabilities, substance use disorders, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

### MISSION

The mission of the UW-Madison Sandra Rosenbaum School of Social Work is to enhance human well-being and promote human rights

and social and economic justice to achieve an equitable, healthy, and productive society. The school aims to:

- Create, advance, strengthen, and integrate interdisciplinary knowledge for students and the profession through research, scholarship, teaching, and practice.
- Educate students to become highly-skilled, culturally-competent and ethical practitioners who will provide effective leadership for the profession of social work within the State of Wisconsin, nationally, and internationally.
- Promote change at levels ranging from the individual to national and international policy, including empowering communities and populations that are disadvantaged and developing humane service delivery systems.
- Create and disseminate knowledge regarding the prevention and amelioration of social problems.

## UNDERGRADUATE DEGREE PROGRAMS

The Sandra Rosenbaum School of Social Work offers a **bachelor of social work (BSW)** degree or a **bachelor of arts (B.A.)** or **bachelor of science (B.S.)** degree with a major in social welfare. The BSW and the social welfare major prepare students for further academic study or for employment in selected human service arenas. The BSW prepares students as beginning-level professional social workers. The social welfare major offers an overview of current social problems.

## DEGREES/MAJORS/CERTIFICATES

- Social Welfare, B.A. (p. 1349)
- Social Welfare, B.S. (p. 1357)
- Social Work, BSW (p. 1365)

## PEOPLE

**Professors:** Lawrence M. Berger, MSW, Ph.D.; Marah H. Curtis, MSW, Ph.D.; Katherine Magnuson, Ph.D.; Stephanie A. Robert, MSW, Ph.D. (School director); Tracy Schroeffer, MSW, Ph.D.; Kristen Slack, A.M., Ph.D.

**Associate Professors:** Lauren Bishop, Ph.D.; Tally Moses, MSW, Ph.D.; Tova Walsh, MSW, Ph.D.; Marci Ybarra, MSW, Ph.D.

**Assistant Professors:** Pajarita Charles, MPA, MSW, Ph.D.; Lara Gerassi, MSW, Ph.D.; LB Klein, MSW, Ph.D.; Jooyoung Kong, MSW, Ph.D.; Jessica Pac, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tawandra Rowell-Cunsolo, Ph.D.

**Clinical Professor:** Audrey Conn, MSSW, APSW; Ellen Smith, MSSW

**Clinical Associate Professors:** Laura Dresser, MSW, Ph.D.; Alice Egan, MSSW, APSW; Amanda Ngola, MSW, LCSW; Lynette Studer, MSSW, Ph.D.; Angela Willits, MSW, LCSW

A complete list of all faculty and staff in the school is available on the School of Social Work Directory (<https://socwork.wisc.edu/directory/>).

## SOCIAL WELFARE, B.A.

The Sandra Rosenbaum School of Social Work core mission is to enhance human well-being and promote human rights and social and economic

justice for people who are disadvantaged to achieve an equitable, healthy, and productive society. At a time when the intersection of increased attention on racial injustice and the COVID-19 pandemic, which is disproportionately impacting people of color, social work seeks to actively confront racism.

Undergraduates in the Sandra Rosenbaum School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students majoring in social welfare leverage their understanding of the historical context of social work and the systems and policies that underlie our society, and learn strategies to address social, racial, economic, and environmental justice and political contexts. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts. The social welfare major offers an overview of current social problems and prepares students for further academic study or for employment in selected human service arenas.

Social work's special contribution rests on an established body of knowledge, values, and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities. Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers areas such as aging, family and child welfare, poverty, mental health, developmental disabilities, substance use disorders, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

Graduates of the Social Welfare major go on to work at non-profit organizations, and federal, state, and local governments. Many alumni go on to complete graduate degrees in Social Work, Counseling, Sociology, Psychology, Gender and Women's Studies, and Law, among other degrees in the Social Sciences and beyond.

The School's main undergraduate Guide page (<https://guide.wisc.edu/undergraduate/letters-science/social-work/>) provides a broader overview of the School and its mission.

## CERTIFICATE PROGRAMS

Students in social welfare major and BSW program often choose from a variety of certificate programs (<https://www.wisc.edu/academics/certificates/>) available. Common certificates include: African American Studies, American Indian Studies, Business, Chicano/a and Latino/a Studies, Criminal Justice Certificate, Gender & Women Studies, Global Health, LGBTQ Studies, South Asian Studies and South East Asian Studies, among others.

## HOW TO GET IN

Students can declare the social welfare major as early as the freshman year as long as they are enrolled in SOC WORK 205 and/or SOC WORK 206. To declare the major, students should make an appointment (<https://socwork.wisc.edu/students/advising/>) and meet with one of the social welfare academic advisors at the School of Social Work.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth—Humanities/Literature/Arts: 6 credits
	• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth—Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

Foreign Language	• Complete the fourth unit of a foreign language; OR
	• Complete the third unit of a foreign language and the second unit of an additional foreign language.

L&S Breadth	• 12 credits of Humanities, which must include 6 credits of literature; and
	• 12 credits of Social Science; and
	• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Complete a minimum of 32 credits, to be attained via the requirements detailed below.

### SOCIAL WELFARE POLICY & SERVICES

Code	Title	Credits
<b>Complete both:</b>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

### SOCIAL SCIENCE CONCENTRATION <sup>1</sup>

Complete two Intermediate or Advanced level courses from **one** of the following social science concentration areas available from ten departments:

#### Afro-American Studies

Code	Title	Credits
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/GEN&WS 333	Black Feminisms	3
AFROAMER/HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/HIST SCI/MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ED POL 567	History of African American Education	3

AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3

#### American Indian Studies

Code	Title	Credits
AMER IND/ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ANTHRO 314	Indians of North America	3
AMER IND/ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/C&E SOC/SOC 578	Poverty and Place	3

#### Anthropology

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO/RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3
ANTHRO 348	Economic Anthropology	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/GEN&WS 443	Anthropology by Women	3
ANTHRO 477	Anthropology, Environment, and Development	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ED POL 570	Anthropology and Education	3

#### Asian American Studies

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3

#### Chicana/o and Latina/o Studies

Code	Title	Credits
CHICLA/POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/POLI SCI 302	Mexican-American Politics	3-4
CHICLA 315	Racial Formation and Whiteness	3

CHICLA/ CURRIC 321	Chicano/Latino Educational Justice	3
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
CHICLA/LEGAL ST/ SOC 440	Ethnicity, Race, and Justice	3-4
CHICLA/LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3
CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.	3
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services	3

## Economics

Code	Title	Credits
ECON/ FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/HIST SCI 305	Development of Economic Thought	3-4
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
ECON 330	Money and Banking	4
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
ECON 355	The Economics of Growing-up and Getting Old	3-4
ECON 370	Economics of Poverty and Inequality	3
ECON 390	Contemporary Economic Issues	3
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 461	International Macroeconomics	3-4
ECON/A A E/ INTL BUS 462	Latin American Economic Development	3
ECON 464	International Trade	3-4
ECON/ HISTORY 466	The American Economy Since 1865	3-4
ECON 467	International Industrial Organizations	3-4

ECON/A A E 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/SOC 663	Population and Society	3
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics	3

## Gender and Women's Studies

Code	Title	Credits
GEN&WS/CHICLA/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism	3
GEN&WS 320	Special Topics in Gender, Women and Society	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS/ LEGAL ST/SOC 425	Crime, Gender and Justice	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS 446	Queer of Color Critique	3



GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEN&WS 539	Special Topics in Gender and Health	3
GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ ED POL 560	Gender and Education	3
GEN&WS/SOC 611	Gender, Science and Technology	3

## Political Science

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 335	Social Identities	3
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society	3
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI 405	State Government and Public Policy	3-4

POLI SCI 408	The American Presidency	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 461	Interdisciplinary Seminar in Political Economy, Philosophy, & Politics	3
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 601	Proseminar: Topics in Political Science	3

## Psychology

Code	Title	Credits
PSYCH 311	Issues in Psychology	3-4
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 403	Psychology of Personality	3
PSYCH 405	Abnormal Psychology	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH 428	Introduction to Cultural Psychology	3-4
PSYCH/SOC 453	Human Sexuality	4
PSYCH 456	Social Psychology	3-4
PSYCH 460	Child Development	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 513	Hormones, Brain, and Behavior	4

PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 525	Cognition in Health and Society	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 532	Psychological Effects of the Internet	4
PSYCH 607	Introduction to Psychotherapy	3

## Sociology

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC/A A E/ C&E SOC 340	Issues in Food Systems	3-4
SOC/C&E SOC 341	Labor in Global Food Systems	3
SOC/C&E SOC 343	Sociology of Health and Medicine	3
SOC 421	Processes of Deviant Behavior	3-4
SOC/ SOC WORK 422	Social Issues in Aging	3
SOC/ILS/ JEWISH 423	Modern Jewish Thought	3
SOC/GEN&WS/ LEGAL ST 425	Crime, Gender and Justice	3
SOC/CHICLA/ LEGAL ST 440	Ethnicity, Race, and Justice	3-4
SOC 441	Criminology	3-4
SOC/CHICLA/ LEGAL ST 443	Immigration, Crime, and Enforcement	3-4
SOC 444	Social Psychology: A Sociological Perspective	3-4
SOC 446	Juvenile Delinquency	3-4
SOC/PSYCH 453	Human Sexuality	4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC 476	Contemporary Sociological Theory	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3

SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/ECON 663	Population and Society	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC/C&E SOC 676	Applied Demography: Planning and Policy	3

## HUMAN BEHAVIOR & THE SOCIAL ENVIRONMENT

Code	Title	Credits
<b>Complete both:</b>		
SOC WORK 457	Human Behavior and the Environment	3
SOC WORK 640	Diversity, Oppression and Social Justice in Social Work	3

## STATISTICS & RESEARCH

Code	Title	Credits
<b>Statistics</b>		
<i>Complete one course from:</i>		3-4
STAT 301	Introduction to Statistical Methods (recommended)	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or PSYCH 210	Basic Statistics for Psychology	
or SOC/ C&E SOC 360	Statistics for Sociologists I	
<b>Research</b>		
<i>Complete one course from:</i>		3-4
SOC WORK 650	Methods of Social Work Research	
or PSYCH 225	Research Methods	

or SOC/  
C&E SOC 357

Methods of Sociological Inquiry

**Total Credits** **6-8**

## ELECTIVES IN SOCIAL WELFARE

Complete **two** Intermediate or Advanced level SOC WORK courses and **at least 6 total credits** of Social Work electives. Not all courses in the list below are offered in each semester or year.

### List of elective Soc Work courses

Code	Title	Credits
SOC WORK 299	Directed Study	1-3
SOC WORK 375	Contemporary Issues in Social Welfare	2-3
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK/ SOC 422	Social Issues in Aging	3
SOC WORK 453	Substance Use Disorders	3
SOC WORK 454	Small Groups in Social Work Practice	3
SOC WORK 462	Child Welfare	3
SOC WORK 523	Family Violence	3
SOC WORK 575	Community Development in Social Welfare	3
SOC WORK 578	Homelessness: A Service Learning Course	4
SOC WORK 624	Social Work with the Small Group	3
SOC WORK 626	Social Work with the Community	3
SOC WORK 627	Sex Trafficking and Sex Trading	2
SOC WORK/ AMER IND 636	Social Work in American Indian Communities: The Indian Child Welfare Act	3
SOC WORK 639	Gay, Lesbian, Bisexual, and Transgender (GLBT) Individuals and Social Welfare	3
SOC WORK 642	Social Work and Adolescents	3
SOC WORK 643	Social Work and Delinquency	3
SOC WORK 644	Issues in Developmental Disabilities	3
SOC WORK 646	Child Abuse and Neglect	2
SOC WORK 656	Family Practice in Foster and Kinship Care	3
SOC WORK 659	International Aspects of Social Work	3
SOC WORK 661	Topics in Contemporary Social Welfare	2-3
SOC WORK 662	Topics in Contemporary Social Welfare	2-3
SOC WORK 663	Topics in Contemporary Social Welfare	2-3
SOC WORK 664	Topics in Contemporary Social Welfare	3
SOC WORK 665	Topics in Contemporary Social Welfare	2-3
SOC WORK 672	Topics in Contemporary Social Welfare	2-3
SOC WORK 673	Topics in Contemporary Social Welfare	2-3

SOC WORK 674	Topics in Contemporary Social Welfare	2-3
SOC WORK 675	Topics in Contemporary Social Welfare	2-3
SOC WORK 676	Topics in Contemporary Social Welfare	2-3
SOC WORK 679	Topics in Contemporary Social Welfare	2-3
SOC WORK 691	Senior Thesis <sup>2</sup>	2
SOC WORK 692	Senior Thesis <sup>2</sup>	2
SOC WORK 699	Directed Study <sup>2,3</sup>	1-3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all SOC WORK and all major courses
- 2.000 GPA on 15 upper-level major credits taken in residence<sup>4</sup>
- 15 credits in SOC WORK, taken on the UW–Madison campus

## FOOTNOTES

1

Social Science Concentration courses listed are a selected list of eligible courses. Consult with a Social Work advisor for other exceptions or additions to the list.

2

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested Social Work faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website. Consent of instructor is required for the noted course offerings in independent work.

3

No more than 3 credits of SOC WORK 699 may be used to meet this requirement.

4

PSYCH 225, SOC/C&E SOC 357, STAT 301, STAT 371, PSYCH 210, and SOC/C&E SOC 360, and all SOC WORK courses designated as Intermediate or Advanced level count as upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify foundational aspects of the US social welfare system and the history of the social work profession.
2. Recognize human differences and how social welfare systems interact with these differences to shape opportunities and outcomes for individuals, groups, and communities.
3. Demonstrate an ability to critically evaluate research with respect to its relevance, quality, and utility for addressing social welfare issues.
4. Synthesize and communicate knowledge relevant to social welfare issues.
5. Practice self-awareness of one's values, beliefs, and biases regarding the causes and consequences of social welfare issues.
6. Connect awareness of self, systems and social welfare knowledge to promote human dignity and justice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Social Welfare majors are encouraged to gain social service experience through volunteer work. See the Social Work advisors or contact the Morgridge Center for Public Service (<http://www.morgridge.wisc.edu/>), 263-2432, for information on volunteering.

Students wishing to apply to the Bachelor of Social Work (BSW) program must do so in spring of Junior year.

#### Freshman

Fall	Credits	Spring	Credits
Communication A	3	Communication B	3
Quantitative Reasoning A	3-4	Elective	3
SOC WORK 100 <sup>1</sup>	3	Natural Science Breadth (or Physical Science if BS)	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
Elective	3	Elective (Intermediate/Advanced-level)	3
<b>16</b>		<b>16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
SOC WORK 205 (can be taken Freshman or Sophomore year)	4	SOC WORK 206 (can be taken Freshman or Sophomore year)	4
Foreign Language (if needed)	4	Foreign Language (if needed; or Intermediate/Advanced level Comp Sci, Math, Stats if BS)	3-4
Biological Sciences Breadth	3	Physical Science Breadth	3-4
Humanities Breadth	3-4	Literature Breadth	3-4
<b>14</b>		<b>14</b>	

#### Junior

Fall	Credits	Spring	Credits
SOC WORK 640	3	SOC WORK 457	3
STAT 301, 371, PSYCH 210, or SOC 360 (Take STAT 301 or STAT 371 if BS)	3-4	SOC WORK 650, PSYCH 225, or SOC 357 <sup>3</sup>	3
Social Science Concentration course <sup>2</sup>	3-4	Literature Breadth	3
Humanities Breadth	3	SOC WORK elective (Intermediate/Advanced level)	2-4
Electives (I/A-level)	3	Social Science Concentration course <sup>2</sup>	3-4
<b>15</b>		<b>15</b>	

#### Senior

Fall	Credits	Spring	Credits
SOC WORK elective (Intermediate/Advanced level)	2-4	SOC WORK elective (Intermediate/Advanced level)	2-4
Natural Science Breadth (or Biological Science if BS)	3	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
<b>15</b>		<b>15</b>	

#### Total Credits 120

1

Note: SOC WORK 100 is a pre-major elective course that can be taken in the first year, if offered; it is not required for the major.

2

Take two Intermediate or Advanced level courses from one of the following social science departments: Afro-American Studies, American Indian Studies, Anthropology, Asian American Studies, Chicana/o and Latina/o Studies, Economics, Gender and Women's Studies, Political Science, Psychology, Sociology.

3

SOC WORK 650 is often available in the summer. Check with an Advisor for course availability and how summer courses might fit into your schedule.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; exploring career paths; declare the major; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/students/advising/#advising-appointments>). Social work faculty members are available for advice about coursework, research, and the social work profession in general.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Professors:** Lawrence M. Berger, MSW, Ph.D.; Marah H. Curtis, MSW, Ph.D.; Katherine Magnuson, Ph.D.; Stephanie A. Robert, MSW, Ph.D. (School director); Tracy Schroepfer, MSW, Ph.D., Kristen Slack, A.M., Ph.D.

**Associate Professors:** Lauren Bishop, Ph.D.; Tally Moses, MSW, Ph.D.; Tova Walsh, MSW, Ph.D.; Marci Ybarra, MSW, Ph.D.

**Assistant Professors:** Pajarita Charles, MPA, MSW, Ph.D.; Lara Gerassi, MSW, Ph.D.; LB Klein, MSW, Ph.D.; Jooyoung Kong, MSW, Ph.D.; Jessica Pac, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tawandra Rowell-Cunsolo, Ph.D.

**Clinical Professor:** Audrey Conn, MSSW, APSW; Ellen Smith, MSSW

**Clinical Associate Professors:** Laura Dresser, MSW, Ph.D.; Alice Egan, MSSW, APSW; Amanda Ngola, MSW, LCSW; Lynette Studer, MSSW, Ph.D.; Angela Willits, MSW, LCSW

A complete list of all faculty and staff in the school is available on the School of Social Work Directory (<https://socwork.wisc.edu/directory/>).

## SOCIAL WELFARE, B.S.

The Sandra Rosenbaum School of Social Work core mission is to enhance human well-being and promote human rights and social and economic justice for people who are disadvantaged to achieve an equitable, healthy, and productive society. At a time when the intersection of increased attention on racial injustice and the COVID-19 pandemic, which is disproportionately impacting people of color, social work seeks to actively confront racism.

Undergraduates in the Sandra Rosenbaum School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students majoring in social welfare leverage their understanding of the historical context of social work and the systems and policies that underlie our society, and learn strategies to address social, racial, economic, and environmental justice and political contexts. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts. The social welfare major offers an overview of current social problems and prepares students for further academic study or for employment in selected human service arenas.

Social work's special contribution rests on an established body of knowledge, values, and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities. Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers areas such as aging, family and child welfare, poverty, mental health, developmental disabilities, substance use disorders, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

Graduates of the Social Welfare major go on to work at non-profit organizations, and federal, state, and local governments. Many alums go on to complete graduate degrees in Social Work, Counseling, Sociology, Psychology, Gender and Women's Studies, and Law, among other degrees in the Social Sciences and beyond.

The School's main undergraduate Guide page (<https://guide.wisc.edu/undergraduate/letters-science/social-work/>) provides a broader overview of the School and its mission.

## CERTIFICATE PROGRAMS

Students in social welfare major and BSW program often choose from a variety of certificate programs (<https://www.wisc.edu/academics/certificates/>) available. Common certificates include: African American Studies, American Indian Studies, Business, Chicano/a and Latino/a Studies, Criminal Justice Certificate, Gender & Women Studies, Global Health, LGBTQ Studies, South Asian Studies and South East Asian Studies, among others.

## HOW TO GET IN

Students can declare the social welfare major as early as the freshman year as long as they are enrolled in SOC WORK 205 and/or SOC WORK 206. To declare the major, students should make an appointment (<https://socwork.wisc.edu/students/advising/>) and meet with one of the social welfare academic advisors at the School of Social Work.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of

Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Complete a minimum of 32 credits, to be attained via the requirements detailed below.

### SOCIAL WELFARE POLICY & SERVICES

Code	Title	Credits
<b>Complete both:</b>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

### SOCIAL SCIENCE CONCENTRATION<sup>1</sup>

Complete two Intermediate or Advanced level courses from **one** of the following social science concentration areas available from ten departments:

**Afro-American Studies**

Code	Title	Credits
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ GEN&WS 333	Black Feminisms	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ ED POL 567	History of African American Education	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3

**American Indian Studies**

Code	Title	Credits
AMER IND/ ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ ENVIR ST/ GEOG 345	Managing Nature in Native North America	3
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/ C&E SOC/SOC 578	Poverty and Place	3

**Anthropology**

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO/ RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3
ANTHRO 348	Economic Anthropology	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/ GEN&WS 443	Anthropology by Women	3
ANTHRO 477	Anthropology, Environment, and Development	3
ANTHRO 545	Psychological Anthropology	3

ANTHRO/ ED POL 570	Anthropology and Education	3
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**Asian American Studies**

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3

**Chicana/o and Latina/o Studies**

Code	Title	Credits
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/ POLI SCI 302	Mexican-American Politics	3-4
CHICLA 315	Racial Formation and Whiteness	3
CHICLA/ CURRIC 321	Chicano/Latino Educational Justice	3
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
CHICLA/LEGAL ST/ SOC 440	Ethnicity, Race, and Justice	3-4
CHICLA/LEGAL ST/ SOC 443	Immigration, Crime, and Enforcement	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3
CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.	3
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services	3

**Economics**

Code	Title	Credits
ECON/ FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/HIST SCI 305	Development of Economic Thought	3-4
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
ECON 330	Money and Banking	4
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4

ECON 355	The Economics of Growing-up and Getting Old	3-4
ECON 370	Economics of Poverty and Inequality	3
ECON 390	Contemporary Economic Issues	3
ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 461	International Macroeconomics	3-4
ECON/A A E/ INTL BUS 462	Latin American Economic Development	3
ECON 464	International Trade	3-4
ECON/ HISTORY 466	The American Economy Since 1865	3-4
ECON 467	International Industrial Organizations	3-4
ECON/A A E 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/SOC 663	Population and Society	3
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics	3

### Gender and Women's Studies

Code	Title	Credits
GEN&WS/CHICLA/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism	3
GEN&WS 320	Special Topics in Gender, Women and Society	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/ CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS/ HISTORY 353	Women and Gender in the U.S. to 1870	3-4

GEN&WS/ HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS/ LEGAL ST/SOC 425	Crime, Gender and Justice	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ ANTHRO 443	Anthropology by Women	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/ HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/ PSYCH 522	Psychology of Women and Gender	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 536	Queering Sexuality Education	3
GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEN&WS 539	Special Topics in Gender and Health	3
GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ ED POL 560	Gender and Education	3
GEN&WS/SOC 611	Gender, Science and Technology	3

### Political Science

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 311	United States Congress	3-4



POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 335	Social Identities	3
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society	3
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4
POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 461	Interdisciplinary Seminar in Political Economy, Philosophy, & Politics	3
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 601	Proseminar: Topics in Political Science	3

## Psychology

Code	Title	Credits
PSYCH 311	Issues in Psychology	3-4
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 403	Psychology of Personality	3
PSYCH 405	Abnormal Psychology	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH 428	Introduction to Cultural Psychology	3-4
PSYCH/SOC 453	Human Sexuality	4
PSYCH 456	Social Psychology	3-4
PSYCH 460	Child Development	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 525	Cognition in Health and Society	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 532	Psychological Effects of the Internet	4
PSYCH 607	Introduction to Psychotherapy	3

## Sociology

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4
SOC/A A E/ C&E SOC 340	Issues in Food Systems	3-4
SOC/C&E SOC 341	Labor in Global Food Systems	3
SOC/C&E SOC 343	Sociology of Health and Medicine	3
SOC 421	Processes of Deviant Behavior	3-4
SOC/ SOC WORK 422	Social Issues in Aging	3
SOC/ILS/ JEWISH 423	Modern Jewish Thought	3
SOC/GEN&WS/ LEGAL ST 425	Crime, Gender and Justice	3
SOC/CHICLA/ LEGAL ST 440	Ethnicity, Race, and Justice	3-4
SOC 441	Criminology	3-4
SOC/CHICLA/ LEGAL ST 443	Immigration, Crime, and Enforcement	3-4

SOC 444	Social Psychology: A Sociological Perspective	3-4
SOC 446	Juvenile Delinquency	3-4
SOC/PSYCH 453	Human Sexuality	4
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC 476	Contemporary Sociological Theory	3
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/ECON 663	Population and Society	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC/C&E SOC 676	Applied Demography: Planning and Policy	3

## HUMAN BEHAVIOR & THE SOCIAL ENVIRONMENT

Code	Title	Credits
<b>Complete both:</b>		
SOC WORK 457	Human Behavior and the Environment	3
SOC WORK 640	Diversity, Oppression and Social Justice in Social Work	3

## STATISTICS & RESEARCH

Code	Title	Credits
<b>Statistics</b>		
<i>Complete one course from:</i>		3-4
STAT 301	Introduction to Statistical Methods (recommended)	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or PSYCH 210	Basic Statistics for Psychology	
or SOC/ C&E SOC 360	Statistics for Sociologists I	
<b>Research</b>		
<i>Complete one course from:</i>		3-4
SOC WORK 650	Methods of Social Work Research	
or PSYCH 225	Research Methods	
or SOC/ C&E SOC 357	Methods of Sociological Inquiry	
<b>Total Credits</b>		<b>6-8</b>

## ELECTIVES IN SOCIAL WELFARE

Complete **two** Intermediate or Advanced level SOC WORK courses and **at least 6 total credits** of Social Work electives. Not all courses in the list below are offered in each semester or year.

### List of elective Soc Work courses

Code	Title	Credits
SOC WORK 299	Directed Study	1-3
SOC WORK 375	Contemporary Issues in Social Welfare	2-3
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK/ SOC 422	Social Issues in Aging	3
SOC WORK 453	Substance Use Disorders	3
SOC WORK 454	Small Groups in Social Work Practice	3
SOC WORK 462	Child Welfare	3
SOC WORK 523	Family Violence	3
SOC WORK 575	Community Development in Social Welfare	3
SOC WORK 578	Homelessness: A Service Learning Course	4
SOC WORK 624	Social Work with the Small Group	3
SOC WORK 626	Social Work with the Community	3
SOC WORK 627	Sex Trafficking and Sex Trading	2

SOC WORK/ AMER IND 636	Social Work in American Indian Communities: The Indian Child Welfare Act	3
SOC WORK 639	Gay, Lesbian, Bisexual, and Transgender (GLBT) Individuals and Social Welfare	3
SOC WORK 642	Social Work and Adolescents	3
SOC WORK 643	Social Work and Delinquency	3
SOC WORK 644	Issues in Developmental Disabilities	3
SOC WORK 646	Child Abuse and Neglect	2
SOC WORK 656	Family Practice in Foster and Kinship Care	3
SOC WORK 659	International Aspects of Social Work	3
SOC WORK 661	Topics in Contemporary Social Welfare	2-3
SOC WORK 662	Topics in Contemporary Social Welfare	2-3
SOC WORK 663	Topics in Contemporary Social Welfare	2-3
SOC WORK 664	Topics in Contemporary Social Welfare	3
SOC WORK 665	Topics in Contemporary Social Welfare	2-3
SOC WORK 672	Topics in Contemporary Social Welfare	2-3
SOC WORK 673	Topics in Contemporary Social Welfare	2-3
SOC WORK 674	Topics in Contemporary Social Welfare	2-3
SOC WORK 675	Topics in Contemporary Social Welfare	2-3
SOC WORK 676	Topics in Contemporary Social Welfare	2-3
SOC WORK 679	Topics in Contemporary Social Welfare	2-3
SOC WORK 691	Senior Thesis <sup>2</sup>	2
SOC WORK 692	Senior Thesis <sup>2</sup>	2
SOC WORK 699	Directed Study <sup>2,3</sup>	1-3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all SOC WORK and all major courses
- 2.000 GPA on 15 upper-level major credits taken in residence<sup>4</sup>
- 15 credits in SOC WORK, taken on the UW–Madison campus

## FOOTNOTES

<sup>1</sup> Social Science Concentration courses listed are a selected list of eligible courses. Consult with a Social Work advisor for other exceptions or additions to the list.

### 2

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested Social Work faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website. Consent of instructor is required for the noted course offerings in independent work.

### 3

No more than 3 credits of SOC WORK 699 may be used to meet this requirement.

### 4

PSYCH 225, SOC/C&E SOC 357, STAT 301, STAT 371, PSYCH 210, and SOC/C&E SOC 360, and all SOC WORK courses designated as Intermediate or Advanced level count as upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify foundational aspects of the US social welfare system and the history of the social work profession.
2. Recognize human differences and how social welfare systems interact with these differences to shape opportunities and outcomes for individuals, groups, and communities.
3. Demonstrate an ability to critically evaluate research with respect to its relevance, quality, and utility for addressing social welfare issues.
4. Synthesize and communicate knowledge relevant to social welfare issues.
5. Practice self-awareness of one's values, beliefs, and biases regarding the causes and consequences of social welfare issues.
6. Connect awareness of self, systems and social welfare knowledge to promote human dignity and justice.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner,

and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Social Welfare majors are encouraged to gain social service experience through volunteer work. See the Social Work advisors or contact the Morgridge Center for Public Service (<http://www.morgridge.wisc.edu/>), 263-2432, for information on volunteering.

Students wishing to apply to the Bachelor of Social Work (BSW) program must do so in spring of Junior year.

### Freshman

Fall	Credits	Spring	Credits
Communication A	3	Communication B	3
Quantitative Reasoning A	3-4	Elective	3
SOC WORK 100 <sup>1</sup>	3	Natural Science Breadth (or Physical Science if BS)	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
Elective	3	Elective (Intermediate/Advanced-level)	3
<b>16</b>		<b>16</b>	

### Sophomore

Fall	Credits	Spring	Credits
SOC WORK 205 (can be taken Freshman or Sophomore year)	4	SOC WORK 206 (can be taken Freshman or Sophomore year)	4
Foreign Language (if needed)	4	Foreign Language (if needed; or Intermediate/Advanced level Comp Sci, Math, Stats if BS)	3-4
Biological Sciences Breadth	3	Physical Science Breadth	3-4
Humanities Breadth	3-4	Literature Breadth	3-4
<b>14</b>		<b>14</b>	

### Junior

Fall	Credits	Spring	Credits
SOC WORK 640	3	SOC WORK 457	3
STAT 301, 371, PSYCH 210, or SOC 360 (Take STAT 301 or STAT 371 if BS)	3-4	SOC WORK 650, PSYCH 225, or SOC 357 <sup>3</sup>	3
Social Science Concentration course <sup>2</sup>	3-4	Literature Breadth	3
Humanities Breadth	3	SOC WORK elective (Intermediate/Advanced level)	2-4
Electives (I/A-level)	3	Social Science Concentration course <sup>2</sup>	3-4
<b>15</b>		<b>15</b>	

### Senior

Fall	Credits	Spring	Credits
SOC WORK elective (Intermediate/Advanced level)	2-4	SOC WORK elective (Intermediate/Advanced level)	2-4
Natural Science Breadth (or Biological Science if BS)	3	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
Electives (Intermediate/Advanced level)	3-4	Electives (Intermediate/Advanced level)	3-4
<b>15</b>		<b>15</b>	

### Total Credits 120

#### 1

Note: SOC WORK 100 is a pre-major elective course that can be taken in the first year, if offered; it is not required for the major.

#### 2

Take two Intermediate or Advanced level courses from one of the following social science departments: Afro-American Studies, American Indian Studies, Anthropology, Asian American Studies, Chicana/o and Latina/o Studies, Economics, Gender and Women's Studies, Political Science, Psychology, Sociology.

#### 3

SOC WORK 650 is often available in the summer. Check with an Advisor for course availability and how summer courses might fit into your schedule.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; exploring career paths; declare the major; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/students/advising/#advising-appointments>). Social work faculty members are available for advice about coursework, research, and the social work profession in general.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Professors:** Lawrence M. Berger, MSW, Ph.D.; Marah H. Curtis, MSW, Ph.D.; Katherine Magnuson, Ph.D.; Stephanie A. Robert, MSW, Ph.D. (School director); Tracy Schroepfer, MSW, Ph.D., Kristen Slack, A.M., Ph.D.

**Associate Professors:** Lauren Bishop, Ph.D.; Tally Moses, MSW, Ph.D.; Tova Walsh, MSW, Ph.D.; Marci Ybarra, MSW, Ph.D.

**Assistant Professors:** Pajarita Charles, MPA, MSW, Ph.D.; Lara Gerassi, MSW, Ph.D.; LB Klein, MSW, Ph.D.; Jooyoung Kong, MSW, Ph.D.; Jessica Pac, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tawandra Rowell-Cunsolo, Ph.D.

**Clinical Professor:** Audrey Conn, MSSW, APSW; Ellen Smith, MSSW

**Clinical Associate Professors:** Laura Dresser, MSW, Ph.D.; Alice Egan, MSSW, APSW; Amanda Ngola, MSW, LCSW; Lynette Studer, MSSW, Ph.D.; Angela Willits, MSW, LCSW

A complete list of all faculty and staff in the school is available on the School of Social Work Directory (<https://socwork.wisc.edu/directory/>).

## SOCIAL WORK, BSW

Undergraduates in the Sandra Rosenbaum School of Social Work receive a liberal arts education in the social and behavioral sciences and their application to human problems that prepares them to be informed citizens involved in human services or social welfare problems and policies. Students take courses in a variety of social sciences to enable them to view social welfare in its broad social, economic, and political contexts. The Bachelor in Social Work (BSW) Program prepares students as beginning-level professional social workers.

Social work's special contribution rests on an established body of knowledge, values, and skills pertinent to understanding human relationships and the interaction between people as individuals, in families, groups, organizations, and communities. Social work courses offer a theoretical understanding of social problems and an introduction to practice methods used by social workers. The curriculum covers such areas

as aging, family and child welfare, poverty, mental health, developmental disabilities, substance use disorders, diversity, race and ethnicity, criminal justice, oppression and social, economic and environmental justice, and at-risk populations.

## BSW PROGRAM MISSION AND GOALS

The School's main undergraduate Guide page (<https://guide.wisc.edu/undergraduate/letters-science/social-work/>) provides a broader overview of the School and its mission.

Guided by the core values of the social work profession and grounded in the generalist practice framework, the BSW program mission is to provide social work education that will nurture competent, ethical entry-level social work professionals committed to scientific inquiry, evidence-based practice, respect for human diversity, the promotion of human and community well-being, human rights, and social, economic and environmental justice. Read more about the BSW Program Mission and Goals (<https://socwork.wisc.edu/about/mission/>).

## CERTIFICATE PROGRAMS

Students in social welfare major and BSW program often choose from a variety of certificate programs (<https://www.wisc.edu/academics/certificates/>) available. Common certificates include: African American Studies, American Indian Studies, Business, Chicano/a and Latino/a Studies, Criminal Justice Certificate, Gender & Women Studies, Global Health, LGBTQ Studies, South Asian Studies and South East Asian Studies, among others.

## MSW ADVANCED STANDING

BSW students may be considered for advanced standing if they apply and are accepted to one of the MSW Programs. Advanced standing qualifies a student to exempt out of all, or part, of their generalist year. For more information, please refer to the Prospective Graduate Students page (<https://socwork.wisc.edu/students/prospective-graduate-students/>) on the School of Social Work website.

## HOW TO GET IN

Students enter the Bachelor of Social Work program by first declaring the Social Welfare major (<https://guide.wisc.edu/undergraduate/letters-science/social-work/social-welfare-ba/#howtogetintext>). Later, if a student applies to and is accepted into the Bachelor of Social Work (BSW) program, their degree program is changed to BSW. In the spring of the junior year, students apply for admission to the BSW program for their senior year.

Students in the BSW program must be in the College of Letters & Sciences. Applicants may be enrolled in another School or College, but must transfer to Letters & Sciences if they are accepted into the BSW program and choose to pursue the degree.

## DECLARING THE SOCIAL WELFARE MAJOR

See the Social Welfare How to Get In (<https://guide.wisc.edu/undergraduate/letters-science/social-work/social-welfare-ba/#howtogetintext>) page for information about declaring the Social Welfare major. This must be done prior to applying to the BSW Program.

## ADMISSION TO THE BSW PROGRAM

In the spring of the junior year, students who meet the following eligibility criteria apply for admission to the Bachelor of Social Work (BSW) program:

- SOC WORK 205 and SOC WORK 206 completed;
- Declared in the Social Welfare major;
- Statistics completed (or concurrent enrollment)<sup>1</sup>;
- Second-semester junior status (minimum of 71 credits completed); and
- Minimum of 2.500 cumulative GPA from all colleges attended<sup>2</sup>.

Admission to the Bachelor of Social Work program is based on assessment of the applicant's background, preparation and experience for practice in the field of social work. Approximately 45 students are admitted to the BSW program each year. Applicants must refer to the School of Social Work BSW Application website (<https://socwork.wisc.edu/admissions/bsw-application/>) to apply, for deadline information, and further application instructions.

## NOTES

1

Refer to the Statistics and Research list in the Requirements tab for eligible statistics courses.

2

Only grades from all post-secondary institutions that have transferred credits to UW-Madison are reviewed. The credits earned at UW-Madison and those transferred to UW-Madison will be computed into the minimum 2.500 GPA required for admission using the GPA calculation method found on the back of each institution's transcript. See admissions instructions (<https://socwork.wisc.edu/admissions/bsw-application/>) for more details about including transcripts.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SOCIAL WORK (BSW)

The Sandra Rosenbaum School of Social Work is a professional school within the College of Letters & Sciences (L&S). The College confers the BSW degree.

Students pursuing a Bachelor of Social Work degree in the College of Letters & Science must complete all of the requirements below. The BSW is a special degree program; it is not considered a major. The BSW degree is not available to students who intend to earn a degree outside the College of Letters & Science.

### BACHELOR OF SOCIAL WORK DEGREE REQUIREMENTS

Mathematics	Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework. Students complete Quantitative Reasoning B within the requirements of the BSW degree program.
Language	Complete either: <ul style="list-style-type: none"> <li>• the fourth unit of one language; or</li> <li>• the complete the third unit of one language and the second unit of one additional language.</li> </ul>
Breadth in the Degree	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, including at least 6 credits of Literature breadth; and</li> <li>• 12 credits of Social Science breadth; and</li> <li>• 12 credits of Natural Science breadth, which must include one 3+ credit course in Biological Science breadth and one 3+ credit course in Physical Science breadth.</li> </ul>
Ethnic Studies	Complete at least 6 credits of coursework with the Ethnic Studies designation.
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Gain admission to and complete the Bachelor of Social Work degree program.

Total Credits	Complete at least 120 credits.
UW-Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## REQUIREMENTS FOR THE PROGRAM

Complete a minimum of 47 credits, to be attained via the requirements detailed below.

### SOCIAL WELFARE POLICY & SERVICES

Code	Title	Credits
<b>Complete both:</b>		
SOC WORK 205	Introduction to the Field of Social Work	4
SOC WORK 206	Introduction to Social Policy	4

### SOCIAL SCIENCE CONCENTRATION <sup>1</sup>

Complete **two** Intermediate or Advanced level courses and **at least 6 total credits** from **one** of the following social science concentration areas:

#### Afro-American Studies

Code	Title	Credits
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/GEN&WS 333	Black Feminisms	3
AFROAMER/HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
AFROAMER/HIST SCI/MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ED POL 567	History of African American Education	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER 671	Selected Topics in Afro-American History	3

#### American Indian Studies

Code	Title	Credits
AMER IND/ENVIR ST 306	Indigenous Peoples and the Environment	3
AMER IND/ANTHRO 314	Indians of North America	3
AMER IND/ENVIR ST/ GEOG 345	Managing Nature in Native North America	3

AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/SOC 578	Poverty and Place	3

#### Anthropology

Code	Title	Credits
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO/RELIG ST 343	Anthropology of Religion	3-4
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3
ANTHRO 348	Economic Anthropology	3-4
ANTHRO 350	Political Anthropology	3-4
ANTHRO/GEN&WS 443	Anthropology by Women	3
ANTHRO 477	Anthropology, Environment, and Development	3
ANTHRO 545	Psychological Anthropology	3
ANTHRO/ED POL 570	Anthropology and Education	3

#### Asian American Studies

Code	Title	Credits
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3
ASIAN AM 540	Special Topics	3

#### Chicana/o and Latina/o Studies

Code	Title	Credits
CHICLA/POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA 301	Chicana/o and Latina/o History	3
CHICLA/POLI SCI 302	Mexican-American Politics	3-4
CHICLA 315	Racial Formation and Whiteness	3
CHICLA/CURRIC 321	Chicano/Latino Educational Justice	3
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/HISTORY/LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
CHICLA/LEGAL ST/SOC 440	Ethnicity, Race, and Justice	3-4
CHICLA/LEGAL ST/SOC 443	Immigration, Crime, and Enforcement	3-4
CHICLA/SOC 470	Sociodemographic Analysis of Mexican Migration	3

CHICLA 501	Chican@ and Latin@ Social Movements in the U.S.	3
CHICLA/ COUN PSY 525	Dimensions of Latin@ Mental Health Services	3

### Economics

Code	Title	Credits
ECON/ FINANCE 300	Introduction to Finance	3
ECON 301	Intermediate Microeconomic Theory	4
ECON 302	Intermediate Macroeconomic Theory	4
ECON/HIST SCI 305	Development of Economic Thought	3-4
ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process	3
ECON 311	Intermediate Microeconomic Theory - Advanced Treatment	3
ECON 312	Intermediate Macroeconomic Theory - Advanced Treatment	3
ECON 330	Money and Banking	4
ECON/A A E/ENVIR ST 343	Environmental Economics	3-4
ECON 355	The Economics of Growing-up and Getting Old	3-4
ECON 370	Economics of Poverty and Inequality	3
ECON 390	Contemporary Economic Issues	3
ECON/URB R PL 420	Urban and Regional Economics	3
ECON 441	Analytical Public Finance	3-4
ECON/POLI SCI 449	Government and Natural Resources	3-4
ECON 450	Wages and the Labor Market	3-4
ECON 461	International Macroeconomics	3-4
ECON/A A E/ INTL BUS 462	Latin American Economic Development	3
ECON 464	International Trade	3-4
ECON/ HISTORY 466	The American Economy Since 1865	3-4
ECON 467	International Industrial Organizations	3-4
ECON/A A E/ECON 474	Economic Problems of Developing Areas	3
ECON 475	Economics of Growth	3-4
ECON 521	Game Theory and Economic Analysis	3-4
ECON 522	Law and Economics	3-4
ECON/PHILOS 524	Philosophy and Economics	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ECON/POP HLTH/ PUB AFFR 548	The Economics of Health Care	3-4
ECON 623	Population Economics	3-4
ECON/SOC 663	Population and Society	3

ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics	3
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### Gender and Women's Studies

Code	Title	Credits
GEN&WS/CHICLA/ GEOG 308	Latinx Feminisms: Women's Lives, Work, and Activism	3
GEN&WS 320	Special Topics in Gender, Women and Society	3
GEN&WS/ AFROAMER 323	Gender, Race and Class: Women in U.S. History	3
GEN&WS 331	Topics in Gender/Class/Race/Ethnicity (Social Sciences)	3
GEN&WS/CHICLA 332	Latinas: Self Identity and Social Change	3
GEN&WS/ AFROAMER 333	Black Feminisms	3
GEN&WS 340	Topics in LGBTQ Sexuality	3
GEN&WS 342	Transgender Studies	3-4
GEN&WS 344	Bi/Pan/Asexuality: Community & Representation	3
GEN&WS/HISTORY 353	Women and Gender in the U.S. to 1870	3-4
GEN&WS/HISTORY 354	Women and Gender in the U.S. Since 1870	3-4
GEN&WS/ COM ARTS 418	Gender, Sexuality, and the Media	3
GEN&WS 420	Women in Cross-Societal Perspective	3
GEN&WS/ LEGAL ST 422	Women and the Law	3
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS/ LEGAL ST/SOC 425	Crime, Gender and Justice	3
GEN&WS/ POLI SCI 429	Gender and Politics in Comparative Perspective	3-4
GEN&WS 441	Contemporary Feminist Theories	3
GEN&WS/ANTHRO 443	Anthropology by Women	3
GEN&WS 446	Queer of Color Critique	3
GEN&WS/ POLI SCI 469	Women and Politics	3-4
GEN&WS/HISTORY 519	Sexuality, Modernity and Social Change	3
GEN&WS/PSYCH 522	Psychology of Women and Gender	3
GEN&WS 523	Framing Fatness: Gender, Size, Constructing Health	3
GEN&WS 534	Gender, Sexuality, and Reproduction: Public Health Perspectives	3
GEN&WS/INTL ST 535	Women's Global Health and Human Rights	3
GEN&WS 536	Queering Sexuality Education	3



GEN&WS/ HIST SCI 537	Childbirth in the United States	3
GEN&WS 539	Special Topics in Gender and Health	3
GEN&WS 546	Feminist Theories and Masculinities	3
GEN&WS 547	Theorizing Intersectionality	3
GEN&WS/ ED POL 560	Gender and Education	3
GEN&WS/SOC 611	Gender, Science and Technology	3

## Political Science

Code	Title	Credits
POLI SCI 205	Introduction to State Government	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4
POLI SCI 304	The Political Economy of Race in the United States	3-4
POLI SCI 305	Elections and Voting Behavior	3-4
POLI SCI 311	United States Congress	3-4
POLI SCI 314	Criminal Law and Justice	3-4
POLI SCI 330	Political Economy of Development	3
POLI SCI 335	Social Identities	3
POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society	3
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI 405	State Government and Public Policy	3-4
POLI SCI 408	The American Presidency	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4
POLI SCI 414	The Supreme Court as a Political Institution	3
POLI SCI 416	Community Power and Grass Roots Politics	3
POLI SCI 417	The American Judicial System	3-4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4
POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4

POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 461	Interdisciplinary Seminar in Political Economy, Philosophy, & Politics	3
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI 470	The First Amendment	3-4
POLI SCI 511	Campaign Finance	3-4
POLI SCI 515	Public Opinion	3-4
POLI SCI 601	Proseminar: Topics in Political Science	3

## Psychology

Code	Title	Credits
PSYCH 311	Issues in Psychology	3-4
PSYCH 401	Psychology, Law, and Social Policy	3
PSYCH 403	Psychology of Personality	3
PSYCH 405	Abnormal Psychology	3-4
PSYCH 413	Language, Mind, and Brain	3
PSYCH 414	Cognitive Psychology	3
PSYCH 428	Introduction to Cultural Psychology	3-4
PSYCH/SOC 453	Human Sexuality	4
PSYCH 456	Social Psychology	3-4
PSYCH 460	Child Development	3-4
PSYCH 464	Adult Development and Aging	3
PSYCH 502	Cognitive Development	4
PSYCH 503	Social Development	4
PSYCH 508	Psychology of Human Emotions: From Biology to Culture	4
PSYCH 510	Critical Issues in Child Psychopathology	4
PSYCH 513	Hormones, Brain, and Behavior	4
PSYCH 521	The Structure of Human Thought: Concepts, Language and Culture	4
PSYCH/ GEN&WS 522	Psychology of Women and Gender	3
PSYCH 525	Cognition in Health and Society	4
PSYCH 526	The Criminal Mind: Forensic and Psychobiological Perspectives	4
PSYCH 532	Psychological Effects of the Internet	4
PSYCH 607	Introduction to Psychotherapy	3

## Sociology

Code	Title	Credits
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4
SOC/C&E SOC 210	Survey of Sociology	3-4

SOC/C&E SOC 211	The Sociological Enterprise	3	SOC 633	Social Stratification	3
SOC/ASIAN AM 220	Ethnic Movements in the United States	3-4	SOC 640	Sociology of the Family	3
SOC/A A E/ C&E SOC 340	Issues in Food Systems	3-4	SOC/LAW/LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC 341	Labor in Global Food Systems	3	SOC/URB R PL 645	Modern American Communities	3
SOC/C&E SOC 343	Sociology of Health and Medicine	3	SOC/ED POL 648	Sociology of Education	3
SOC 421	Processes of Deviant Behavior	3-4	SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/ SOC WORK 422	Social Issues in Aging	3	SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/ILS/ JEWISH 423	Modern Jewish Thought	3	SOC/ECON 663	Population and Society	3
SOC/GEN&WS/ LEGAL ST 425	Crime, Gender and Justice	3	SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC/CHICLA/ LEGAL ST 440	Ethnicity, Race, and Justice	3-4	SOC/C&E SOC 676	Applied Demography: Planning and Policy	3
SOC 441	Criminology	3-4	<b>HUMAN BEHAVIOR &amp; THE SOCIAL ENVIRONMENT</b>		
SOC/CHICLA/ LEGAL ST 443	Immigration, Crime, and Enforcement	3-4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
SOC 444	Social Psychology: A Sociological Perspective	3-4	<b>Complete all:</b>		
SOC 446	Juvenile Delinquency	3-4	SOC WORK 457	Human Behavior and the Environment	3
SOC/PSYCH 453	Human Sexuality	4	SOC WORK 612	Psychopathology in Generalist Social Work Practice	2
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3	SOC WORK 640	Diversity, Oppression and Social Justice in Social Work	3
SOC/C&E SOC 475	Classical Sociological Theory	3	<b>SOCIAL WORK PRACTICE SEQUENCE <sup>5</sup></b>		
SOC 476	Contemporary Sociological Theory	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3	<b>Complete all:</b>		
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3	SOC WORK 400	Field Practice and Integrative Seminar I <sup>2,5</sup>	4
SOC 535	Talk and Social Interaction	3	SOC WORK 401	Field Practice and Integrative Seminar II <sup>2,5</sup>	4
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3	SOC WORK 441	Generalist Practice with Individuals, Families and Groups	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3	SOC WORK 442	Generalist Practice with Communities and Organizations	2
SOC 543	Collective Behavior	3	<b>STATISTICS AND RESEARCH</b>		
SOC/C&E SOC 573	Community Organization and Change	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
SOC 575	Sociological Perspectives on the Life Course and Aging	3	<b>Statistics</b>		
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3	<i>Complete one course from:</i>		3-4
SOC/GEN&WS 611	Gender, Science and Technology	3	STAT 301	Introduction to Statistical Methods	
SOC/C&E SOC/URB R PL 617	Community Development	3	or STAT 371	Introductory Applied Statistics for the Life Sciences	
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3	or PSYCH 210	Basic Statistics for Psychology	
SOC 624	Political Sociology	3	or SOC/ C&E SOC 360	Statistics for Sociologists I	
SOC 626	Social Movements	3	<b>Research</b>		
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3	<i>Complete one course from:</i>		3-4
SOC 632	Sociology of Organizations	3-4	SOC WORK 650	Methods of Social Work Research	
			or PSYCH 225	Research Methods	
			or SOC/ C&E SOC 357	Methods of Sociological Inquiry	
			<b>Total Credits</b>		<b>6-8</b>

## ELECTIVES

Complete **two** Intermediate or Advanced level SOC WORK courses and **at least 6 total credits** of Social Work electives. Not all courses in the list below are offered in each semester or year.

### List of Social Work elective courses

Code	Title	Credits
SOC WORK 375	Contemporary Issues in Social Welfare	3
SOC WORK 420	Poverty and Social Welfare	3
SOC WORK/ SOC 422	Social Issues in Aging	3
SOC WORK 453	Substance Use Disorders	3
SOC WORK 454	Small Groups in Social Work Practice	3
SOC WORK 462	Child Welfare	3
SOC WORK 523	Family Violence	3
SOC WORK 575	Community Development in Social Welfare	3
SOC WORK 578	Homelessness: A Service Learning Course	4
SOC WORK 624	Social Work with the Small Group	3
SOC WORK 626	Social Work with the Community	3
SOC WORK 627	Sex Trafficking and Sex Trading	2
SOC WORK/ AMER IND 636	Social Work in American Indian Communities: The Indian Child Welfare Act	3
SOC WORK 639	Gay, Lesbian, Bisexual, and Transgender (GLBT) Individuals and Social Welfare	3
SOC WORK 642	Social Work and Adolescents	3
SOC WORK 643	Social Work and Delinquency	3
SOC WORK 644	Issues in Developmental Disabilities	3
SOC WORK 646	Child Abuse and Neglect	2
SOC WORK 648	Palliative and End-of-Life Care Social Work Practice	2
SOC WORK 656	Family Practice in Foster and Kinship Care	3
SOC WORK 659	International Aspects of Social Work	3
SOC WORK 661	Topics in Contemporary Social Welfare	2-3
SOC WORK 662	Topics in Contemporary Social Welfare	2-3
SOC WORK 663	Topics in Contemporary Social Welfare	2-3
SOC WORK 664	Topics in Contemporary Social Welfare	2-3
SOC WORK 665	Topics in Contemporary Social Welfare	2-3
SOC WORK 672	Topics in Contemporary Social Welfare	2-3
SOC WORK 673	Topics in Contemporary Social Welfare	2-3
SOC WORK 674	Topics in Contemporary Social Welfare	2-3

SOC WORK 675	Topics in Contemporary Social Welfare	2-3
SOC WORK 676	Topics in Contemporary Social Welfare	2-3
SOC WORK 679	Topics in Contemporary Social Welfare	2-3
SOC WORK 691	Senior Thesis <sup>3</sup>	2
SOC WORK 692	Senior Thesis <sup>3</sup>	2
SOC WORK 699	Directed Study <sup>6</sup>	1-3

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all SOC WORK courses and all major courses
- Minimum 2.000 GPA on 15 upper-level major credits, taken in residence<sup>4</sup>
- 15 credits in SOC WORK, taken on campus

## FOOTNOTES

1

Social Science Concentration courses listed are a selected list of eligible courses. Consult with a Social Work advisor for other exceptions or additions to the list.

2

BSW students take two semesters (16 hours per week—256 hours/semester) of field education during their senior year (SOC WORK 400 fall semester, SOC WORK 401 spring semester).

3

Students with an interest in a particular area of study may develop a plan of independent work with the assistance of an interested Social Work faculty member. They may obtain information about instructors and their areas of interest from the School of Social Work website (<https://socwork.wisc.edu/directory/>). Consent of instructor is required for the noted course offerings in independent work.

4

PSYCH 225, SOC/C&E SOC 357, STAT 301, STAT 371, PSYCH 210, SOC/C&E SOC 360, and all SOC WORK courses designated as Intermediate or Advanced count as upper-level in the major.

5

Please refer to the Advising and Careers tab (<https://guide.wisc.edu/undergraduate/letters-science/social-work/social-work-bsw/#advisingandcareerstext>) for more information on field education placements.

6

No more than 3 credits of SOC WORK 699 Directed Study may be used toward fulfillment of this requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Engage diversity and difference in practice.
2. Advance human rights and social, economic and environmental justice.
3. Engage in practice-informed research and research informed practice.
4. Engage in policy practice.
5. Engage with individuals, families, groups, organizations, and communities.
6. Assess individuals, families, groups, organizations, and communities.
7. Intervene with individuals, families, groups, organizations, and communities.
8. Evaluate practice with individuals, families, groups, organizations, and communities.
9. Demonstrate ethical and professional behavior.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

Students wishing to apply to the Bachelor of Social Work (BSW) program (<https://socwork.wisc.edu/admissions/bsw-application/>) must do so in spring of Junior year.

#### First Year

Fall	Credits	Spring	Credits
Communication A	3	Ethnic Studies	3-4
Quantitative Reasoning A	3-4	Literature Breadth	4
Biological Science Breadth	3	Physical Science Breadth	3
Language (if needed)	4	Language (if needed)	4
	<b>14</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
SOC WORK 205	4	SOC WORK 206	4

Humanities Breadth	4	Communication B	4
Literature Breadth	4	Science Breadth	3
Elective	3	Electives	5
INTER-LS 210 <sup>1</sup>	1		
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
SOC WORK 640 (fall-only) <sup>2</sup>	3	SOC WORK 457 (spring only)	3
Social Science Concentration <sup>2</sup>	3-4	STAT 301, 371, PSYCH 210, or SOC 360 (also meets Quantitative Reasoning B)	3-4
Science Breadth	3	SOC WORK elective (Intermediate/Advanced-level)	3-4
Electives (Intermediate/Advanced-level)	6	Social Science Concentration <sup>2</sup>	3-4
		Elective (Intermediate/Advanced-level)	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
SOC WORK 400 (fall only)	4	SOC WORK 401 (spring only)	4
SOC WORK 441 (fall only)	3	SOC WORK 612 (spring only) <sup>3</sup>	2
SOC WORK 442 (fall only)	2	SOC WORK 650 (spring only) <sup>3</sup>	3
Electives (Intermediate/Advanced-level)	6	SOC WORK elective (Intermediate/Advanced-level)	3-4
		Elective (Intermediate/Advanced-level)	2-3
	<b>15</b>		<b>15</b>

#### Total Credits 120

Note: SOC WORK 100 is a pre-major elective course that can be taken in the first year, if offered; it is not required for the major.

1

The College encourages students to take INTER-LS 210 in their second year (or anytime); it is recommended but not required.

2

SOC WORK 640 counts towards the BSW ethnic studies requirement, providing three of the six credits needed.

3

SOC WORK 612 and SOC WORK 650 are often available in the summer. Check with an Advisor regarding availability and how summer courses might fit into your schedule.

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

Students planning to graduate within three years from the Bachelor of Social Work program should enter the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- Communication Part A
- Quantitative Reasoning Part A
- 18 combined credits of Humanities, Social Science, and Natural Science coursework
- 3-4 units of language

Students wishing to apply to the Bachelor of Social Work (BSW) program (<https://socwork.wisc.edu/admissions/bsw-application/>) must do so in spring of Junior year.

#### First Year

Fall	Credits	Spring	Credits
SOC WORK 205	4	SOC WORK 206	4
Social Science Concentration course	3-4	Social Science Concentration course	3-4
Biological Science Breadth	3	Humanities Breadth	3
Literature Breadth	3	Literature Breadth	3
Language (if interested in retroactive credit or to reach 4 units)	3	Physical Science Breadth	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
STAT 301, 371, PSYCH 210, or SOC 360 (also meets Quantitative Reasoning B)	3	SOC WORK 650 (spring only) <sup>2</sup>	3
SOC WORK 640 (fall only) <sup>1</sup>	3	SOC WORK 457 (spring only)	3
SOC WORK elective (Intermediate/Advanced-level)	3	Humanities Breadth	3
Communication B	3	Science Breadth	3

Science Breadth (if not taking STAT 301 or 371)	3 Elective (Intermediate/Advanced-level)	3-4
	<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
SOC WORK 400 (fall only)	4	SOC WORK 401 (spring only)	4
SOC WORK 441 (fall only)	3	SOC WORK 612 (spring only) <sup>2</sup>	2
SOC WORK 442 (fall only)	2	Ethnic Studies	3
Elective (Intermediate/Advanced-level)	3-4	SOC WORK Elective (Intermediate/Advanced-level)	3-4
Elective	2-4	Elective (Intermediate/Advanced-level)	2
	<b>14</b>		<b>14</b>

#### Total Credits 90

1

SOC WORK 640 counts towards the BSW ethnic studies requirement, providing three of the six credits needed.

2

SOC WORK 612 and SOC WORK 650 are often available in the summer. Check with an Advisor regarding availability and how summer courses might fit into your schedule.

## ADVISING AND CAREERS

### ADVISING

Students interested in either the social welfare major or bachelor of social work meet with the social work advisors to discuss degree requirements; career opportunities; complete the major declaration; and confer on student issues and concerns. Advisors are an excellent resource for information about campus and community services. Students should see an advisor at least once each semester to review academic progress. Advising appointments are made through the school's website (<https://socwork.wisc.edu/students/advising/#advising-appointments>) or by calling 263-3660. Social work faculty members are available for advice about course work, research, and the social work profession in general.

### BSW ETHNIC STUDIES REQUIREMENT

The BSW degree program requires six ethnic studies credits. The BSW degree's minimum 47 credits assumes that three credits of the six-credit ethnic studies degree requirement will be met through SOC WORK 640, with the other three credits met as part of the Social Work electives, the Social Science Concentration, or other electives.

### FIELD EDUCATION

The director of field education makes final unit placement decisions and field instructors make final agency-placement decisions.

The types of agencies working with the field education program are varied. Field units are organized around a social problem area or a field of practice. Each unit has a range of field placement agencies and settings appropriate to its theme. The emphasis for undergraduate placements

is on applying the knowledge and skills of generalist social work practice with systems of all sizes. The focus is on learning and applying analytic and interventive skills within an ethically based, problem-focused approach.

Social work students should be advised that the Wisconsin Caregiver Law requires a Wisconsin background check (Caregiver Check and Wisconsin Criminal History) for all potential field-education students prior to the field placement. More information regarding this process is available at Field Education (<https://socwork.wisc.edu/programs/field-education/>) on the social work website.

For more information about field units, the agencies they work with, and field course expectations see the Field Education Handbook (<https://socwork.wisc.edu/students/resources/#bsw-students>). Field unit availability may vary from year to year.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Professors:** Lawrence M. Berger, MSW, Ph.D.; Marah H. Curtis, MSW, Ph.D.; Katherine Magnuson, Ph.D.; Stephanie A. Robert, MSW, Ph.D. (School director); Tracy Schroepfer, MSW, Ph.D., Kristen Slack, A.M., Ph.D.

**Associate Professors:** Lauren Bishop, Ph.D.; Tally Moses, MSW, Ph.D.; Tova Walsh, MSW, Ph.D.; Marci Ybarra, MSW, Ph.D.

**Assistant Professors:** Pajarita Charles, MPA, MSW, Ph.D.; Lara Gerassi, MSW, Ph.D.; LB Klein, MSW, Ph.D.; Jooyoung Kong, MSW, Ph.D.; Jessica Pac, Ph.D.; Alejandra Ros Pilarz, Ph.D.; Tawandra Rowell-Cunsolo, Ph.D.

**Clinical Professor:** Audrey Conn, MSSW, APSW; Ellen Smith, MSSW

**Clinical Associate Professors:** Laura Dresser, MSW, Ph.D.; Alice Egan, MSSW, APSW; Amanda Ngola, MSW, LCSW; Lynette Studer, MSSW, Ph.D.; Angela Willits, MSW, LCSW

A complete list of all faculty and staff in the school is available on the School of Social Work Directory (<https://socwork.wisc.edu/directory/>).

## CERTIFICATION/LICENSURE

### CERTIFICATION/LICENSURE CERTIFICATION/LICENSURE

Association of Social Work Boards (<https://www.aswb.org/>) BSW exam pass rates.

Many students pursuing a BSW will go on to earn a Master in Social Work, which does not require taking the bachelor's level exam. As such, the number of students taking the exam is not high enough, making it easy to identify individual results. Thus, no data is available from ASWB for UW-Madison attempts.

Year of Exam	UW-Madison National Graduates:	All Attempts
2021	No Data	61
2020	100	61
2019	No data	60
2018	100	61
2017	100	71
2016	100	70

Year of Exam	UW-Madison National Graduates:	First Attempt
2021	No Data	69
2020	100	69
2019	No Data	67
2018	100	69
2017	100	78
2016	100	77

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Illinois, Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming, District of Columbia, American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## ACCREDITATION

### ACCREDITATION

Council on Social Work Education (<https://www.csw.org/Accreditation/>)

Accreditation status: Accredited. Next accreditation review: 2028.

## SCHOOL OF JOURNALISM AND MASS COMMUNICATION

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the journalism program. Students are required to complete at least one of the two tracks described below.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

## PRACTICAL EXPERIENCE: ORGANIZATIONS

The school encourages students to gain practical experience through part-time jobs and internships. Student media include (but are not limited to) *The Daily Cardinal*, the Badger Herald (<http://www.badgerherald.com>), WSUM radio (<http://wsum.wisc.edu>) and the Wisconsin Union Directorate Publications (<https://union.wisc.edu/get-involved/wud/publications/>). Student organizations related to the

school and major include (but are not limited to) the Public Relations Student Society of America (PRSSA), the Advertising Club, the Society of Professional Journalists (SPJ) and the Association for Women in Communication (AWC). Professionals from the media and related fields appear often in classes and meet with students in professional student organizations.

## INTERNSHIPS

Students planning careers as media professionals are encouraged to hold one or more internships in the area of their academic specialization(s). **Declared journalism majors** or prospective journalism majors with no other declared major may earn course credit for internships that relate to their professional tracks. As part of their degree programs, students may earn a maximum of 3 credits of JOURN 697 Internship during their undergraduate careers. Students may only earn one credit of JOURN 697 per semester, but may repeat the credit up to three times. Students who want to earn degree credit for their internships should consult with career advisor Pam Garcia-Rivera **before they accept an internship**. Students must enroll in JOURN 697 at the time they hold the internship.

JOURN 697 does not count as part of the 30 minimum journalism credits required for graduation. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## JOB INFORMATION SERVICE

The school provides a job listing service at this link (<http://journalism.wisc.edu/career-services/current-listings/>) on its website; please direct questions to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services/>) or with the undergraduate career advisor for specific information.

## DEGREES/MAJORS/CERTIFICATES

- Digital Media Analytics, Certificate (p. 1375)
- Journalism, JBA (p. 1377)
- Journalism, JBS (p. 1381)
- Sports Communication, Certificate (p. 1385)

## PEOPLE

Professors Baughman, Blum, Downey, Drechsel, Dunwoody, Fair, Friedland, Gunther, McLeod, Mitchell, Rojas, D. Shah, H. Shah (director), Vaughn

Associate Professors Kim, Riddle, Robinson

Assistant Professors Culver, Graves, Hull, Palmer, Steenson, Wagner, Wells

## DIGITAL MEDIA ANALYTICS, CERTIFICATE

The Certificate in Digital Media Analytics is a 12-credit program that equips students with data analysis skills and a theoretical understanding of how digital media function in contemporary society, particularly within journalism, strategic communication, and mass media contexts. This

certificate program prepares students for successful careers in data journalism, data-driven strategic communication (e.g., advertising, public relations, communication campaigns), and data-informed sports communication. The program serves both Journalism majors (as an elective sequence) and non-Journalism majors (offering training and credentials in digital media analytics to facilitate entry into media-related industries).

## HOW TO GET IN

The Certificate in Digital Media Analytics will be open to any University of Wisconsin–Madison undergraduate student with a minimum 2.000 University GPA. Students may declare or cancel the certificate at any time by filling out a declaration form available from the SJMC advisor and administrative staff.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires a minimum of 12 credits.

Code	Title	Credits
<b>Foundational Courses (complete at least one)</b>		<b>3-4</b>
JOURN 175	Media Fluency for the Digital Age	
JOURN 201	Introduction to Mass Communication	
<b>Skills Course (complete at least one)</b>		<b>3-4</b>
JOURN 658	Communication Research Methods	
LSC 460	Social Media Analytics	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Social Impacts Courses (complete at least one)</b>		<b>3-4</b>
JOURN/ HISTORY 560	History of U.S. Media	
JOURN 561	Mass Communication and Society	
JOURN 563	Law of Mass Communication	
JOURN 564	Media and the Consumer	
JOURN 565	Effects of Mass Communication	
JOURN 566	Communication and Public Opinion	
JOURN/ COM ARTS/ HDFS 616	Mass Media and Youth	
JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	
JOURN 618	Mass Communication and Political Behavior	
JOURN 620	International Communication	
JOURN 621	Mass Communication in Developing Nations	

JOURN 622	The Impact of Emerging Media
JOURN 651	Sports Controversies & Communication Professions
JOURN/ ASIAN AM 662	Mass Media and Minorities
JOURN 664	Social Networks in Communication
JOURN 670	Community Service Learning: Technology for Social Change
JOURN 678	Legal & Ethical Dimensions of Emerging Media

#### Capstone Course

JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	3
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**Total Credits** **12**

## RESIDENCE AND QUALITY OF WORK

- At least 7 certificate credits must be completed in residence.
- Minimum 2.000 GPA on all certificate courses.

## LEARNING OUTCOMES

1. Apply fundamental data science concepts and skills to improve the critical understanding of the roles of evolving digital media in journalism, mass communication, strategic communication, and sports communication.
2. Effectively and ethically use digital media to communicate complex data and results to a broad and diverse range of stakeholders.
3. Strategically, creatively and critically use digital media and analytics for compelling data-driven storytelling.
4. Develop an understanding of the key perspectives on the social and media contexts in which digital media operate.
5. Develop effective practices to advance inclusion and social justice in media professions and communication research.

## ADVISING AND CAREERS

Sandra Kubat is the undergraduate advisor for the Certificate in Digital Media Analytics program. Students are encouraged to meet with Sandra when they have questions about the courses and requirements for the certificate. Contact her by email at [skubat@wisc.edu](mailto:skubat@wisc.edu).

The Certificate in Digital Media Analytics encourages students to get involved in related internships and career-building courses related to digital media analytics. Students seeking assistance in securing internships and/or planning their careers should contact Pamela Garcia-Rivera, Media, Information and Communication Career Advisor. Contact her by email at [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu).

## PEOPLE

### FACULTY

Christopher Cascio  
Katheryn Christy  
Kathleen Culver (SJMC Director)  
Lucas Graves



Young Mie Kim  
 Kathryn McGarr  
 Douglas McLeod (SJMC Undergraduate Committee Chairperson)  
 Lindsay Palmer  
 Susan Robinson  
 Karyn Riddle  
 Hernando Rojas  
 Dhavan Shah  
 Michael Wagner  
 Jing Wang  
 Sijia Yang (CERT256 Faculty Director)

## TEACHING FACULTY

Matthew Hermann  
 Debra Pierce

## JOURNALISM, JBA

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the program. Students are required to complete at least one of the two professional tracks, Journalism or Strategic Communication.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

## PRACTICAL EXPERIENCE: ORGANIZATIONS

The school encourages students to gain practical experience through part-time jobs and internships. Student media include (but are not limited to) *The Daily Cardinal*, the Badger Herald (<http://www.badgerherald.com>), WSUM radio (<http://wsum.wisc.edu>) and the Wisconsin Union Directorate Publications (<https://union.wisc.edu/get-involved/wud/publications/>). Student organizations related to the school and major include (but are not limited to) the Public Relations Student Society of America (PRSSA), the Advertising Club, the Society of Professional Journalists (SPJ) and the Association for Women in Communication (AWC). Professionals from the media and related fields appear often in classes and meet with students in professional student organizations.

## INTERNSHIPS

Students planning careers as media professionals are encouraged to hold one or more internships in the area of their academic specialization(s). **Declared journalism majors** or prospective Journalism majors with no other declared major may earn course credit for internships that relate to their professional tracks. As part of their degree programs, students may earn a maximum of 3 credits of JOURN 697 Internship during their

undergraduate careers. Students may earn only one credit of JOURN 697 per semester, but may repeat the credit up to three times. Students who wish to earn degree credit for their internships should consult with career advisor Pam Garcia-Rivera **before they accept an internship**. Students must enroll in JOURN 697 at the time they hold the internship. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## HOW TO GET IN

## ADMISSION TO THE JOURNALISM DEGREE PROGRAM

Students who wish to declare themselves as degree candidates in journalism must submit an application to the School of Journalism and Mass Communication (SJMC). Applications are accepted each fall and spring semester for admission the following semester. Prospective degree candidates must present to the school a record of academic achievement, writing ability and extracurricular participation that indicate a probability of success in some field of communication.

In order to apply for admission to the school, students must have met the following requirements:

- A minimum of 24 credits completed by the end of the semester in which they apply, including transfer credits but excluding AP and retroactive language credits.
- Completion of JOURN 201 by the end of the semester in which they apply. Students may have no more than 16 credits in Journalism courses taken at UW–Madison when applying for admission.

Transfer students must be enrolled for at least one semester at UW–Madison before applying for admission to the SJMC (their first semester may be in progress at the time they submit their application). Students transferring journalism course credit from other colleges and universities should check their record of transferred credit with the SJMC undergraduate academic advisor. The academic advisor is available for consultation at most SOAR orientation sessions for transfer students.

The number of students to be admitted in a given semester is subject to change based on the school's capacity to provide adequate access to required courses. Admissions decisions are based on the entire application, with particular emphasis on academic performance and writing ability. Specific guidelines for submitting the application portfolio are available online at this link (<http://journalism.wisc.edu/undergraduate/admissions/the-application/>) or in SJMC academic advising. The academic advisor conducts one-hour information sessions for applicants each semester, with dates and times listed on the application; these sessions are highly recommended and provide more information for applicants than is possible in a one-on-one advising meeting.

After admission to the school, the student's classification will be changed to JBA or JBS to reflect this change in status.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education

requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS–JOURNALISM (JBA)

The School of Journalism and Mass Communication is a professional school within the College of Letters & Sciences (L&S). The College confers the Bachelor of Arts–Journalism (JBA) degree.

Students pursuing a Bachelor of Arts–Journalism (JBA) degree in the College of Letters & Science must complete all of the requirements below. The JBA is a special degree program; it is not considered a major. The JBA degree is not available to students who intend to earn a degree outside the College of Letters & Science.

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language** Complete either:  
 • the fourth unit of a foreign language; or  
 • the third unit of a foreign language and the second unit of a different foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:  
 • 30 credits in residence, overall; and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## REQUIREMENTS FOR THE MAJOR

Students must complete 32 credits in major course work, to include:

### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Introduction to Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 202	Mass Communication Practices	6
JOURN 203	Information for Communication	3
<b>Social Science and Humanities</b>		<b>12</b>
Intermediate/Advanced courses from at least three distinct Subjects <sup>1</sup>		
<b>Total Credits</b>		<b>25</b>

<sup>1</sup>

Courses cross-listed in JOURN **may not count** toward this requirement.

### TRACKS

Students must complete one of two tracks: **Journalism**, which focuses on reporting, or **Strategic Communication**, which focuses on forms of persuasive communication that includes advertising and public relations).<sup>3</sup>

#### Journalism

Code	Title	Credits
JOURN 335	Principles and Practices of Reporting	4
<b>Advanced Reporting - one course:</b>		
JOURN 401	In-Depth Reporting	
JOURN 404	Interpretation of Contemporary Affairs	
JOURN 405	Creative Nonfiction	
JOURN 411	Multimedia Design	
JOURN 417	Magazine Publishing	
JOURN 420	Investigative Reporting	
JOURN 425	Video Journalism	
JOURN 426	Community-Based Reporting	
JOURN 453	Strategic Media Relations	
JOURN 455	Emerging Media and the News	
JOURN 456	Long Form Video	

JOURN 457	Storytelling Through Sound	
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	

**Total Credits** 8

### Strategic Communication

Code	Title	Credits
JOURN 345	Principles and Practice of Strategic Communication	4

**Advanced Strategic Communication—one course:** 4

JOURN 411	Multimedia Design	
JOURN 417	Magazine Publishing	
JOURN 445	Creative Campaign Messages	
JOURN 447	Strategic Media Planning	
JOURN 449	Account Planning and Strategy	
JOURN 453	Strategic Media Relations	
JOURN 455	Emerging Media and the News	
JOURN 456	Long Form Video	
JOURN 463	Digital Media Strategies	
JOURN 464	Public Relations Strategies	
JOURN 465	Social Media Marketing Communications	
JOURN 470	Strategic Communication Campaigns Capstone	
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>	
JOURN 457	Storytelling Through Sound	

**Total Credits** 8

### PERSPECTIVES, TOPICS AND ADVANCES

Code	Title	Credits
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**Perspectives (Two courses):** 8

JOURN/ HISTORY 560	History of U.S. Media	
JOURN 561	Mass Communication and Society	
JOURN 563	Law of Mass Communication	
JOURN 564	Media and the Consumer	
JOURN 565	Effects of Mass Communication	
JOURN 566	Communication and Public Opinion	

**Topics or Advances (1 course):** 3-4

JOURN/ COM ARTS/ HDFS 616	Mass Media and Youth	
JOURN 618	Mass Communication and Political Behavior	
JOURN 620	International Communication	
JOURN 658	Communication Research Methods	
JOURN/ ASIAN AM 662	Mass Media and Minorities	
JOURN 669	Literary Aspects of Journalism	
JOURN 675	Topics in Government and Mass Media	
JOURN 676	Special Topics in Mass Communication	

Advances:

JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age	
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JOURN 622	The Impact of Emerging Media	
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JOURN 664	Social Networks in Communication	
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JOURN 670	Community Service Learning: Technology for Social Change	
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JOURN/L I S 677	Concepts and Tools for Data Analysis and Visualization	
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JOURN 678	Legal & Ethical Dimensions of Emerging Media	
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**Total Credits** 11-12

2

Special Topics courses may count for either track, or no track, depending on Topic. Consult the advisor for this major to determine eligibility of JOURN 475 to meet a major requirement.

3

Students planning to complete both tracks should consult with the undergraduate academic advisor about course availability and planning.

### RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all JOURN and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>5</sup>
- 15 credits in JOURN, taken on the UW-Madison campus

5

JOURN 400-699 are upper-level in the major.

### HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Journalism undergraduate advisor.

### HONORS IN THE JOURNALISM MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all JOURN courses and all courses that count toward the major
- Complete one additional Topics or Advances course, for a total of two Topics or Advances courses
- Earn a grade of B or better in the four Perspectives, Topics and Advances courses
- Complete a two-semester of Senior Honors Thesis in JOURN 681 and JOURN 682, for a total of 6 credits.

### UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Convey information and express ideas effectively in contemporary media.
2. Understand the responsible and ethical use of mass media.
3. Appreciate the media's relationship with social, political, legal and economic systems.
4. Think strategically, creatively and critically, to solve problems in a professional context.
5. Develop effective practices to advance inclusion and social justice in media professions and communication research.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 JOURN 201	4
Quantitative Reasoning A	3-4	Ethnic Studies	3
Science Breadth	3	Biological Science Breadth	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
	<b>13</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
JOURN 202		6 JOURN 335 or 345	4
JOURN 203		3 Literature Breadth	4
Quantitative Reasoning B	3	Physical Science Breadth	3
Social Science Breadth	4	Social Science Breadth	4
		INTER-LS 210	1
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
Journalism or Strategic Communication course		4 Perspectives course	4
Intermediate/Advanced Humanities or Social Science for JBA/JBS		4 Intermediate/Advanced Humanities or Social Science for JBA/JBS	4
Literature Breadth		4 Intermediate/Advanced COMP SCI, MATH, or STAT (if JBS)	3-4
Science Breadth		3 Science Breadth	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Perspectives course (JOURN 500+)		4 Topics or Advances course (JOURN 600+)	3-4
Intermediate/Advanced Humanities or Social Science for JBA/JBS		4 Electives	11
Intermediate/Advanced COMP SCI, MATH, or STAT (if JBS)	3-4		
Electives		5	
	<b>16</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ACADEMIC ADVISING

For information about academic advising, see the School of Journalism and Mass Communication website (<https://journalism.wisc.edu/undergraduate/meet-with-an-advisor/>).

### JOB INFORMATION SERVICE

The school provides a job listing service at current listings (<https://journalism.wisc.edu/career-services/current-listings/>) on the SJMC website. Questions concerning that can be directed to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services/>) or with the undergraduate career advisor for specific information.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professor and Director: Culver

Professors Downey, Friedland, Kim, McLeod, Riddle, Robinson, Rojas, D. Shah, H. Shah, Wagner

Associate Professors Culver, Graves, Palmer

Assistant Professors Cascio, Christy, McGarr, Yang

## JOURNALISM, JBS

The School of Journalism and Mass Communication (SJMC), founded in 1905, offers professional education within the context of the liberal arts degree of the College of Letters & Science. The student earns the journalism bachelor of arts (JBA) or journalism bachelor of science (JBS) degree upon completion of the program. Students are required to complete at least one of the two professional tracks, Journalism or Strategic Communication.

The school seeks to provide students with both a broad cultural base for future careers and the competence to do professional work immediately after graduation. Of the 120 credits required for graduation, at least 21 must be in the social sciences/humanities—for example, economics, history, psychology, political science, sociology. In addition to skills courses, students are required to take courses in conceptual subjects such as law and history of mass communication, public opinion, international communication and communication theory. The student approaches mass communication as science, art, and service while relating it to many facets of society.

## PRACTICAL EXPERIENCE: ORGANIZATIONS

The school encourages students to gain practical experience through part-time jobs and internships. Student media include (but are not limited to) *The Daily Cardinal*, the Badger Herald (<http://www.badgerherald.com>), WSUM radio (<http://wsun.wisc.edu>) and the Wisconsin Union Directorate Publications (<https://union.wisc.edu/>)

get-involved/wud/publications/). Student organizations related to the school and major include (but are not limited to) the Public Relations Student Society of America (PRSSA), the Advertising Club, the Society of Professional Journalists (SPJ) and the Association for Women in Communication (AWC). Professionals from the media and related fields appear often in classes and meet with students in professional student organizations.

## INTERNSHIPS

Students planning careers as media professionals are encouraged to hold one or more internships in the area of their academic specialization(s). **Declared journalism majors** or prospective Journalism majors with no other declared major may earn course credit for internships that relate to their professional tracks. As part of their degree programs, students may earn a maximum of 3 credits of JOURN 697 Internship during their undergraduate careers. Students may earn only one credit of JOURN 697 per semester, but may repeat the credit up to three times. Students who wish to earn degree credit for their internships should consult with career advisor Pam Garcia-Rivera **before they accept an internship**. Students must enroll in JOURN 697 at the time they hold the internship. Students who wish to enroll in JOURN 697 should see Pam Garcia-Rivera for authorization to enroll.

## HOW TO GET IN

## ADMISSION TO THE JOURNALISM DEGREE PROGRAM

Students who wish to declare themselves as degree candidates in journalism must submit an application to the School of Journalism and Mass Communication (SJMC). Applications are accepted each fall and spring semester for admission the following semester. Prospective degree candidates must present to the school a record of academic achievement, writing ability and extracurricular participation that indicate a probability of success in some field of communication.

In order to apply for admission to the school, students must have met the following requirements:

- A minimum of 24 credits completed by the end of the semester in which they apply, including transfer credits but excluding AP and retroactive language credits.
- Completion of JOURN 201 by the end of the semester in which they apply. Students may have no more than 16 credits in Journalism courses taken at UW-Madison when applying for admission.

Transfer students must be enrolled for at least one semester at UW-Madison before applying for admission to the SJMC (their first semester may be in progress at the time they submit their application). Students transferring journalism course credit from other colleges and universities should check their record of transferred credit with the SJMC undergraduate academic advisor. The academic advisor is available for consultation at most SOAR orientation sessions for transfer students.

The number of students to be admitted in a given semester is subject to change based on the school's capacity to provide adequate access to required courses. Admissions decisions are based on the entire application, with particular emphasis on academic performance and writing ability. Specific guidelines for submitting the application portfolio are available online at this link (<http://journalism.wisc.edu/undergraduate/admissions/the-application/>) or in SJMC academic advising. The

academic advisor conducts one-hour information sessions for applicants each semester, with dates and times listed on the application; these sessions are highly recommended and provide more information for applicants than is possible in a one-on-one advising meeting.

After admission to the school, the student's classification will be changed to JBA or JBS to reflect this change in status.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE–JOURNALISM (JBS)

The School of Journalism and Mass Communication is a professional school within the College of Letters & Sciences (L&S). The College confers the Bachelor of Science–Journalism (JBS) degree.

Students pursuing a Bachelor of Science–Journalism (JBS) degree in the College of Letters & Science must complete all of the requirements below. The JBS is a special degree program; it is not considered a major. The JBS degree is not available to students who intend to earn a degree outside the College of Letters & Science.

### BACHELOR OF SCIENCE–JOURNALISM DEGREE REQUIREMENTS

- |             |   |
|-------------|---|
| Mathematics | Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement. |
|-------------|---|

Foreign Language	Complete the third unit of a foreign language.
L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	Complete both: <ul style="list-style-type: none"> <li>• 30 credits in residence, overall, and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### REQUIREMENTS FOR THE MAJOR

Students must complete 32 credits in major course work, to include:

#### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Introduction to Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 202	Mass Communication Practices	6
JOURN 203	Information for Communication	3
<b>Social Science and Humanities</b>		<b>12</b>
Intermediate/Advanced courses from at least three distinct Subjects <sup>1</sup>		
<b>Total Credits</b>		<b>25</b>

1

Courses cross-listed in JOURN **may not count** toward this requirement.

#### TRACKS

Students must complete one of two tracks: **Journalism**, which focuses on reporting, or **Strategic Communication**, which focuses on forms of persuasive communication that includes advertising and public relations).<sup>3</sup>

#### Journalism

Code	Title	Credits
JOURN 335	Principles and Practices of Reporting	4
<b>Advanced Reporting - one course:</b>		<b>4</b>
JOURN 401	In-Depth Reporting	
JOURN 404	Interpretation of Contemporary Affairs	
JOURN 405	Creative Nonfiction	
JOURN 411	Multimedia Design	

JOURN 417	Magazine Publishing
JOURN 420	Investigative Reporting
JOURN 425	Video Journalism
JOURN 426	Community-Based Reporting
JOURN 453	Strategic Media Relations
JOURN 455	Emerging Media and the News
JOURN 456	Long Form Video
JOURN 457	Storytelling Through Sound
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>

**Total Credits** 8

### Strategic Communication

Code	Title	Credits
JOURN 345	Principles and Practice of Strategic Communication	4

#### Advanced Strategic Communication—one course: 4

JOURN 411	Multimedia Design
JOURN 417	Magazine Publishing
JOURN 445	Creative Campaign Messages
JOURN 447	Strategic Media Planning
JOURN 449	Account Planning and Strategy
JOURN 453	Strategic Media Relations
JOURN 455	Emerging Media and the News
JOURN 456	Long Form Video
JOURN 463	Digital Media Strategies
JOURN 464	Public Relations Strategies
JOURN 465	Social Media Marketing Communications
JOURN 470	Strategic Communication Campaigns Capstone
JOURN 475	Special Topics in Advanced Concepts and Skills <sup>2</sup>
JOURN 457	Storytelling Through Sound

**Total Credits** 8

### PERSPECTIVES, TOPICS AND ADVANCES

Code	Title	Credits
<b>Perspectives (Two courses):</b>		<b>8</b>

JOURN/ HISTORY 560	History of U.S. Media
JOURN 561	Mass Communication and Society
JOURN 563	Law of Mass Communication
JOURN 564	Media and the Consumer
JOURN 565	Effects of Mass Communication
JOURN 566	Communication and Public Opinion

#### Topics or Advances (1 course): 3-4

JOURN/ COM ARTS/ HDFS 616	Mass Media and Youth
JOURN 618	Mass Communication and Political Behavior
JOURN 620	International Communication
JOURN 658	Communication Research Methods

JOURN/ ASIAN AM 662	Mass Media and Minorities
JOURN 669	Literary Aspects of Journalism
JOURN 675	Topics in Government and Mass Media
JOURN 676	Special Topics in Mass Communication

Advances:

JOURN/ COM ARTS/ LSC 617	Health Communication in the Information Age
JOURN 622	The Impact of Emerging Media
JOURN 664	Social Networks in Communication
JOURN 670	Community Service Learning: Technology for Social Change
JOURN/L IS 677	Concepts and Tools for Data Analysis and Visualization
JOURN 678	Legal & Ethical Dimensions of Emerging Media

**Total Credits** 11-12

2

Special Topics courses may count for either track, or no track, depending on Topic. Consult the advisor for this major to determine eligibility of JOURN 475 to meet a major requirement.

3

Students planning to complete both tracks should consult with the undergraduate academic advisor about course availability and planning.

### RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all JOURN and all major courses
- 2.000 GPA on 15 upper-level major credits, taken in residence<sup>5</sup>
- 15 credits in JOURN, taken on the UW-Madison campus

5

JOURN 400–699 are upper-level in the major.

### HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Journalism undergraduate advisor.

### HONORS IN THE JOURNALISM MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.400 GPA for all JOURN courses and all courses that count toward the major
- Complete one additional Topics or Advances course, for a total of two Topics or Advances courses
- Earn a grade of B or better in the four Perspectives, Topics and Advances courses
- Complete a two-semester of Senior Honors Thesis in JOURN 681 and JOURN 682, for a total of 6 credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Convey information and express ideas effectively in contemporary media.
2. Understand the responsible and ethical use of mass media.
3. Appreciate the media's relationship with social, political, legal and economic systems.
4. Think strategically, creatively and critically, to solve problems in a professional context.
5. Develop effective practices to advance inclusion and social justice in media professions and communication research.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A	3	JOURN 201	4
Quantitative Reasoning A	3–4	Ethnic Studies	3
Science Breadth	3	Biological Science Breadth	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
	<b>13</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
JOURN 202	6	JOURN 335 or 345	4
JOURN 203	3	Literature Breadth	4
Quantitative Reasoning B	3	Physical Science Breadth	3
Social Science Breadth	4	Social Science Breadth	4
		INTER-LS 210	1
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
Journalism or Strategic Communication course	4	Perspectives course	4
Intermediate/Advanced Humanities or Social Science for JBA/JBS	4	Intermediate/Advanced Humanities or Social Science for JBA/JBS	4
Literature Breadth	4	Intermediate/Advanced COMP SCI, MATH, or STAT (if JBS)	3–4
Science Breadth	3	Science Breadth	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Perspectives course (JOURN 500+)	4	Topics or Advances course (JOURN 600+)	3–4
Intermediate/Advanced Humanities or Social Science for JBA/JBS	4	Electives	11
Intermediate/Advanced COMP SCI, MATH, or STAT (if JBS)	3–4		
Electives	5		
	<b>16</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ACADEMIC ADVISING

For information about academic advising, see the School of Journalism and Mass Communication website (<https://journalism.wisc.edu/undergraduate/meet-with-an-advisor/>).

### JOB INFORMATION SERVICE

The school provides a job listing service at current listings (<https://journalism.wisc.edu/career-services/current-listings/>) on the SJMC website. Questions concerning that can be directed to Pam Garcia-Rivera.

Current students and recent alumni are encouraged to meet with the undergraduate career advisor to discuss career and internship opportunities. Students may consult the school website (<http://journalism.wisc.edu/career-services/>) or with the undergraduate career advisor for specific information.



## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professor and Director: Culver  
 Professors Downey, Friedland, Kim, McLeod, Riddle, Robinson, Rojas, D. Shah, H. Shah, Wagner  
 Associate Professors Culver, Graves, Palmer  
 Assistant Professors Cascio, Christy, McGarr, Yang

## SPORTS COMMUNICATION, CERTIFICATE

The Certificate in Sports Communication is a 12-credit program that provides students with practical skills training and knowledge for success in the growing professions of sports journalism/broadcasting and sports strategic communication (sports marketing communication, and media/public relations). The program also includes coursework on sports, media and society. This program serves both Journalism majors (as an elective sequence) and non-Journalism majors (providing an opportunity for them to take professional skills courses in journalism and strategic communication). Many of these courses can be taken online and over the summer to maximize flexibility for student schedules.

The certificate includes a required Introduction to Sports Communication, a choice of professional skills courses on either Sports Marketing

Communications or Advanced Sports Communication and a Social Impacts course. Students will take a final elective course, which can be a professional enrichment course such as an internship, careers colloquium or directed study.

## HOW TO GET IN

The Certificate in Sports Communication will be open to any University of Wisconsin-Madison undergraduate. Students may declare or cancel the certificate at any time in consultation with the School of Journalism and Mass Communication undergraduate advisor and administrative staff.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

The certificate requires 12 credits as follows:<sup>1</sup>

Code	Title	Credits
<b>Survey Course:</b>		
JOURN 150	Introduction to Sports Communication	3
<b>One Skills course from the following:</b>		<b>3</b>
JOURN 350	Sports Marketing Communications	
JOURN 450	Advanced Sports Communication	
MARKETNG 410	Sports Marketing	
<b>One Social Impacts course from the following:</b>		<b>3</b>
HISTORY 136	Sport, Recreation, & Society in the United States	
JOURN 162	Mass Media in Multicultural America	
COM ARTS 359	Sports Media	
JOURN 651	Sports Controversies & Communication Professions	
<b>One Professional Enrichment course from the following:</b>		<b>1-3</b>
INTER-LS 260	Internship in the Liberal Arts and Sciences	
JOURN 601	Colloquium in Professional Communication Careers	
JOURN 697	Internship	
JOURN 699	Directed Study	
COM ARTS 614	Field Experience in Communication	
COM ARTS 615	Second Field Experience in Communication	
<b>Elective credit from any course above to achieve 12 credits</b>		<b>0-2</b>
<b>Total Credits</b>		<b>12</b>

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate-approved courses
- At least 6 credits in the certificate must be taken in residence

1

Courses taken on a Pass/Fail basis do not meet requirements of the certificate.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Students will be able to convey information and express ideas pertaining to sports effectively in contemporary media.
2. Students will understand the responsible and ethical use of mass media to disseminate information to sports-interested audiences.
3. Students will be able to articulate the role of sports in culture and society and the media's relationship to that role.
4. Students will be able to think strategically, creatively and critically to meet the demands and challenges of informing the public about sports while understanding the norms of amateur and professional sports organizations.

### ADVISING AND CAREERS

Matt Hermann is the undergraduate advisor for the Sports Communication Certificate. Students are encouraged to meet with Herman when they have questions about the courses and requirements for the certificate. Contact him by email at [mrhermann@wisc.edu](mailto:mrhermann@wisc.edu).

The Sports Certificate Program encourages students to get involved in sports-related internships and career-building courses (see certificate requirements). Students seeking assistance in securing internships and/or planning their careers should contact Pamela Garcia-Rivera, Media, Information and Communication Career Advisor. Contact her by email at [pgarciariver@wisc.edu](mailto:pgarciariver@wisc.edu).

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

### PEOPLE

Professors: McLeod, H. Shah (director)

Faculty Associates: Hermann

## SOCIOLOGY

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office's resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice (p. 559) section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students "Course Requisites Not Met" enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as "electives," numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW-Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science.

These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## DEGREES/MAJORS/CERTIFICATES

- Integrated Studies in Science, Engineering, and Society, Certificate (p. 1387)
- Sociology, B.A. (p. 1389)
- Sociology, B.S. (p. 1396)

## PEOPLE

Professors Carlson, Elwert, Emirbayer, Ermakoff, Ferree, Fletcher, Ford, Freeland, Fujimura, Gerber, Goldberg, Grodsky, Lim, Logan, Massoglia, Maynard, Montgomery, Nobles, Oliver, Raymo, Rogers, Schaeffer, Schwartz, Seidman, Wright

Associate Professors Conti, Engelman, Grant, Light

Assistant Professors Goffman, Jensen

## INTEGRATED STUDIES IN SCIENCE, ENGINEERING, AND SOCIETY, CERTIFICATE

The certificate in Integrated Studies in Science, Engineering, and Society Undergraduate (ISSuES) offers undergraduate students an opportunity to explore the social sciences and humanities in a way that emphasizes the relationship between science, technology, medicine, engineering, and society. From energy to communications technologies to gene editing to automation, the interplay between researchers, developers, policy makers and the public is constantly shaping and reshaping our world. The ISSuES certificate allows undergraduate students to complement their majors with a set of courses aimed at helping them understand how society shapes science and how science shapes society.

Offered by the Holtz Center for Science & Technology Studies, ISSuES was designed to help STEM-field majors fulfill their liberal arts requirements, but is highly flexible and is available to all undergraduate students interested in exploring the complex interplay between science, technology, medicine, engineering, and society. For more information, see the program website (<http://sts.wisc.edu>).

## HOW TO GET IN

The certificate in integrated studies in science, engineering and society is offered to all undergraduate students. Students should begin the application process by the end of sophomore year, but no later than the end of their junior year.

The first step in applying to the program is to consult with the ISSuES certificate advisor. To make an appointment, please send an email to [sts@ssc.wisc.edu](mailto:sts@ssc.wisc.edu).

## REQUIREMENTS

### 15 CREDITS, TO INCLUDE: <sup>1</sup>

Code	Title	Credits
STS 201	Where Science Meets Society	3
<b>9 credits from one focus area:</b>		<b>9</b>

*Ethics:*

ED PSYCH 301	How People Learn	
ENVIR ST 112	Environmental Studies: Social Science Perspectives	
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies	
HIST SCI 133	Biology and Society, 1950 - Today	
HIST SCI 201	The Origins of Scientific Thought	
HIST SCI 202	The Making of Modern Science	
HIST SCI 203	Science in the Twentieth Century: A Historical Overview	
HIST SCI/ MED HIST 212	Bodies, Diseases, and Healers: An Introduction to the History of Medicine	
HIST SCI 222	Technology and Social Change in History	
HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History	
HIST SCI/ MED HIST/ RELIG ST 331	Science, Medicine and Religion	
HIST SCI/ HISTORY/ MED HIST 394	Science in America	
HIST SCI/ MED HIST/ POP HLTH 553	International Health and Global Society	
HIST SCI/ MED HIST 668	Topics in History of Medicine	
HISTORY/ ENVIR ST/ GEOG 460	American Environmental History	
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I	
MED HIST/ PHILOS 515	Public Health Ethics	
MED HIST 699	Independent Study in Medical History	
PHILOS 220	Philosophy and the Sciences	
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
PHILOS 541	Modern Ethical Theories	

**Leadership:**

A A E/ AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health
GEOG/ ENVIR ST 139	Global Environmental Issues
HIST SCI/ S&A PHM 401	History of Pharmacy
LSC 100	Science and Storytelling
LSC 350	Visualizing Science and Technology
LSC 625	Risk Communication
M H R 300	Managing Organizations
POLI SCI 104	Introduction to American Politics and Government
POLI SCI 184	Introduction to American Politics
POLI SCI/ LEGAL ST 217	Law, Politics and Society
SOC/ C&E SOC 245	Technology and Society
SOC WORK 206	Introduction to Social Policy
<b>Design:</b>	
ART 102	Two-Dimensional Design
ART 104	Three-Dimensional Design
ART 107	Introduction to Digital Forms
ART 108	Foundations of Contemporary Art
ART 112	Drawing I
ART 212	Drawing Methods & Concepts
ART 334	Wood Working
ART 448	Special Topics
ART 534	Advanced Wood Working
ART HIST 202	History of Western Art II: From Renaissance to Contemporary
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST/ ASIAN 379	Cities of Asia
ART HIST 567	Proseminar in American Architecture
DS 120	Design: Fundamentals I
DS 210	Fashion Illustration
DS 220	Design: Fundamentals II
DS 221	Person and Environment Interactions
DS 642	Taste
ENVIR ST/ GEOG 139	Global Environmental Issues
HIST SCI 350	Special Topics in the History of Science
JOURN 415	Science and Environmental Journalism
LAND ARC 250	Survey of Landscape Architecture Design

LSC 440	Digital Media and Science Communication
M H R 300	Managing Organizations
PHILOS 241	Introductory Ethics
SOC/ C&E SOC 245	Technology and Society
<b>General:</b>	
AFROAMER 272	Race and American Politics from the New Deal to the New Right
ANTHRO 104	Cultural Anthropology and Human Diversity
ART 107	Introduction to Digital Forms
COM ARTS 200	Introduction to Digital Communication
COM ARTS 472	Rhetoric and Technology
CURRIC 277	Videogames & Learning
DS 120	Design: Fundamentals I
ENVIR ST 112	Environmental Studies: Social Science Perspectives
ENVIR ST/ GEOG 339	Environmental Conservation
HISTORY/ HIST SCI/ MED HIST 507	Health, Disease and Healing I
HIST SCI 201	The Origins of Scientific Thought
HIST SCI 202	The Making of Modern Science
HIST SCI 203	Science in the Twentieth Century: A Historical Overview
HIST SCI 222	Technology and Social Change in History
HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ HIST SCI 509	The Development of Public Health in America
PHILOS 101	Introduction to Philosophy
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society
PSYCH/ I SY E 349	Introduction to Human Factors
ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology
<b>Capstone—one from: <sup>2</sup></b>	
ART 448	Special Topics
ART 534	Advanced Wood Working
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues
ART HIST 567	Proseminar in American Architecture
DS 642	Taste

GEOG 342	Geography of Wisconsin
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health
HIST SCI/ MED HIST 668	Topics in History of Medicine
LSC 625	Risk Communication
MED HIST/ HIST SCI/ HISTORY 507	Health, Disease and Healing I
MED HIST/ HIST SCI 509	The Development of Public Health in America
MED HIST 699	Independent Study in Medical History
PHILOS 341	Contemporary Moral Issues
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society
PSYCH/ I SY E 349	Introduction to Human Factors
STS 699	Directed Study

**Total Credits****15**

1

Courses taken with the pass/fail grade option do not apply to the certificate.

2

Courses used for the Focus area cannot also count for Capstone.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA on all courses counting toward the certificate and certificate approved courses
- 8 credits in the certificate, in residence

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Be exposed to the social sciences and humanities and see their relevance to scientific and technological enterprises.
2. Develop the capacity for interdisciplinary, critical thinking about the relationship between science, technology, engineering, medicine and society.
3. Develop a sense of personal and social responsibility for their engineering, scientific or other professional practice.
4. Strengthen written communication skills.

## ADVISING AND CAREERS

### ADVISING

To obtain advising assistance, students should consult with the ISSuES certificate advisor. To make an appointment, send an email to [sts@ssc.wisc.edu](mailto:sts@ssc.wisc.edu).

All UW–Madison undergraduates are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with SuccessWorks at the College of Letters & Science. L&S graduates are in high demand by employers and graduate programs, and the ISSuES certificate provides students with a way to integrate their liberal studies with the skills they are developing in their majors. It is important to us that our students are career ready at the time of graduation, and we are committed to your success. Students who have completed the certificate say that it helped them enhance the portfolio of skills they offered to employers and graduate programs by giving them foundations for understanding and communicating effectively about the ethical, policy, design, and other non-technical aspects of science, engineering and medicine.

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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## SOCIOLOGY, B.A.

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office's resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice (p. 559) section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students "Course Requisites Not Met" enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as "electives," numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW-Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science. These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## HOW TO GET IN

Students must meet with the undergraduate advisor and review the requirements prior to declaring the major.

To declare the Concentration in Analysis and Research, students must have completed SOC/C&E SOC 360 and SOC/C&E SOC 357 with a 3.000 GPA between the two courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW-Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW-Madison</li> </ul>

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

A minimum of 30 credits in SOC courses is required for the basic major. Students are strongly encouraged to complete the Foundation courses as early as possible; these courses are prerequisites for most upper-level SOC courses.

### FOUNDATION (CORE)

Code	Title	Credits
<b>Introduction to SOC (1 course)</b>		<b>3-4</b>
SOC/C&E SOC 210	Survey of Sociology	
SOC/C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	
<b>Research Methods<sup>1</sup></b>		
SOC/C&E SOC 357	Methods of Sociological Inquiry (Research Methods)	3-4
<b>Statistics<sup>2</sup></b>		
SOC/C&E SOC 360	Statistics for Sociologists I	3-4
or ECON 310	Statistics: Measurement in Economics	
or GEOG 360	Quantitative Methods in Geographical Analysis	
or MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
or PSYCH 210	Basic Statistics for Psychology	
or STAT 301	Introduction to Statistical Methods	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Classical Theory</b>		
SOC/C&E SOC 475	Classical Sociological Theory	3
<b>Total Credits</b>		<b>12-15</b>

### 1

Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.

### 2

Statistics courses taken outside of the SOC subject do not count for 30-credits required in the major, nor are they upper level in the major.

## DISTRIBUTION

4 courses from at least 2 of these areas:

### Methods/Statistics

Code	Title	Credits
SOC 351	Introduction to Survey Methods for Social Research	3
SOC/C&E SOC 361	Statistics for Sociologists II	4
SOC 362	Statistics for Sociologists III	4
SOC/C&E SOC 365	Data Management for Social Science Research	3-4
SOC 375	Introduction to Mathematical Sociology	3
SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics	1-6

### Theory

Code	Title	Credits
SOC 462	Study Abroad in Additional Theory	1-6
SOC 476	Contemporary Sociological Theory	3

### Deviant Behavior

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/SOC WORK 422	Social Issues in Aging	3
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior	1-6
SOC/GEN&WS/LEGAL ST 425	Crime, Gender and Justice	3
SOC/CHICLA/LEGAL ST 443	Immigration, Crime, and Enforcement	3-4
SOC/CHICLA/LEGAL ST 440	Ethnicity, Race, and Justice	3-4

### Social Psychology

Code	Title	Credits
SOC/PSYCH 453	Human Sexuality	4
SOC 464	Study Abroad in Social Psychology	1-6
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3

SOC/C&E SOC 573	Community Organization and Change	3	SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3	SOC/C&E SOC 573	Community Organization and Change	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3	SOC 575	Sociological Perspectives on the Life Course and Aging	3

### Social Organization

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 465	Study Abroad in Social Organization	1-6
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

### Demography and Ecology

Code	Title	Credits
SOC 460	Study Abroad in Demography and Ecology	1-6
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3
SOC 674	Demographic Techniques I	3

### Community and Environmental Sociology

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3

SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

### ELECTIVES

Additional SOC courses to achieve the required 30 credits for the major.<sup>4</sup>

#### 4

A maximum one introductory course (SOC 181, SOC/C&E SOC 210, SOC/C&E SOC 211) may count toward the 30 required for the major.

### RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all SOC courses and courses that count toward the major
- 2.000 GPA on 15 upper-level major credits, taken in Residence<sup>5</sup>
- 15 credits in SOC, taken on the UW–Madison campus

#### 5

SOC courses numbered 300–699 are upper level, except for: C&E SOC/ SOC 357, C&E SOC/SOC 360, LEGAL ST/SOC 415, PSYCH/SOC 453, and SOC 497.

## SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH OPTION

View as listView as grid

- SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH (P. 1395)

## HONORS IN THE MAJOR

Students may declare Honors in the Sociology Major in consultation with the Sociology undergraduate advisor.

### HONORS IN THE SOCIOLOGY MAJOR: REQUIREMENTS

To earn Honors in the Major in Sociology, students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all SOC courses, and all courses accepted in the major
- Complete 21 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	4
SOC/C&E SOC 475	Classical Sociological Theory	3



SOC 681	Senior Honors Thesis	3
SOC 682	Senior Honors Thesis	3

The remaining Honors credits, to reach the 21 credit minimum, must be in courses at or above the 300 level.

Students may declare the Concentration in Analysis and Research ("CAR"). Speak to the major advisor about this option.

## UNIVERSITY DEGREE REQUIREMENTS

<b>Total Degree</b>	To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.
<b>Quality of Work</b>	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Conduct Research and Analyze Data)** Sociology encompasses both qualitative and quantitative research methods. Quantitative methods are used in market research, opinion polling, sales, government, and countless other applications and allow researchers to recognize trends and patterns and produce social statistics. Qualitative research skills provide an in depth understanding of interactions, communications, worksite practices, and social worlds. Advanced sociological research methods require graduate-level training beyond the scope of our undergraduate major, but we expect that all undergraduate majors will be able to conduct small-scale research using surveys, interviews, experiments, textual analysis or observations in which they formulate a research question, collect data, analyze results, and draw conclusions.
- (Critically Evaluate Published Research)** Sociology graduates will be able to read and evaluate published research as it appears in academic journals and popular or policy publications. They will be able to identify the research methods used, assess the quality of the sample, assess the quality of measurements and procedures, evaluate the links between the data and the interpretations, identify possible threats to the validity of the results, and provide an overall assessment of the trustworthiness of the research results. They will be able to read and evaluate a set of research articles on the same broad issue and be able to draw summarize the research findings across multiple issue.
- (Communicate Skillfully)** Because the sociology major involves a large amount of reading, writing, and discussion, majors learn how to convey ideas effectively in writing, presentations, and everyday conferences and meetings. Sociology majors write papers and make

oral presentations that build arguments and assess evidence in a clear and effective manner.

- (Critical Thinking about Society and Social Processes)** Sociological inquiry involves learning to look beyond the surface of issues to discover the "why" and "how" of social order and structure. Sociology majors develop strong analytical skills and learn to solve problems and identify opportunities. They are able to consider the underlying social mechanisms that may be creating a situation, identify evidence that may adjudicate between alternate explanations for phenomena, and develop proposed policies or action plans in light of theory and data.
- (See Things from a Global Perspective)** Sociologists learn about different cultures, groups, and societies. They examine both variation and universality across places and through history. They are aware of the diversity of backgrounds and experiences among residents of the United States. They understand the ways events and processes in one country are linked to those in other countries.
- (Prepare for Graduate School and the Job Market)** An undergraduate major in sociology provides an excellent foundation for work and graduate study in a wide range of fields including law, business, social work, medicine, policy research, public health, public administration and, of course, sociology. With the aid of faculty and staff, students use their social research skills to identify opportunities for employment or further study, assess their qualifications for these opportunities, and identify strategies for gaining the necessary knowledge and experience to improve their qualifications. Students are encouraged to develop and maintain portfolios of their written work and educational experiences to aid them in preparing applications.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

First Year			
Fall	Credits	Spring	Credits
Communication A	3	SOC/C&E SOC 210 or 211 (SOC 211 also satisfies Communication B)	3-4
Quantitative Reasoning A	3	SOC/C&E SOC 357	4
Foreign Language (if required)	4	Biological Science Breadth	3
Ethnic Studies (may be taken in the major)	3	Intermediate MATH, COMP SCI or STAT (for B.S.)	3
Physical Science Breadth	3		
	<b>16</b>		<b>14</b>

**Second Year**

Fall	Credits	Spring	Credits
SOC/C&E SOC 360 (satisfies Quantitative Reasoning B)	4	SOC/C&E SOC 475	3
INTER-LS 210	1	SOC Distribution (upper level)	4
Humanities Breadth	3	Natural Science Breadth	3
Science Breadth	3	Literature Breadth	3
Elective	4	Elective	2
<b>15</b>		<b>15</b>	

**Third Year**

Fall	Credits	Spring	Credits
Declare the major		SOC Distribution (upper level)	4
Humanities Breadth	6	Electives	11
SOC Distribution (upper level)	4		
Electives	5		
<b>15</b>		<b>15</b>	

**Fourth Year**

Fall	Credits	Spring	Credits
SOC Distribution (upper level)	3	SOC elective	4
Electives	12	Electives	11
<b>15</b>		<b>15</b>	

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

This university is a very big place. Even the most well-prepared new students will have moments when they say to themselves, "Uh oh. What have I got myself into going to such a big school? Choosing courses at SOAR was stressful, fun, or both, but after SOAR am I on my own?" The answer is no. Every student has at least one assigned advisor. Over the course of their time at the university, students may have several assigned advisors. That is a good thing; L&S advisors are highly networked, and they always communicate with each other about shared students.

When students read their DARS reports—documents that were developed to help them find their way to a timely graduation, they can feel overwhelmed; it looks like they need 500 credits to graduate. How can they get all those requirements done? Do sociology (or Spanish, or English) majors really have to take biology courses?

In the Sociology Department, we take advising very seriously. We encourage our majors to see the advisor at least once every semester. The advisor will help you summarize the DARS and map your completed coursework onto the goals and timeline for graduation, including the sociology major and L&S requirements. The sociology advisor will have departmental or college news about guest speakers, new faculty, new courses, internships, and scholarships. This advisor will also be able to assist in preparation for, and applications to graduate school, and be able to connect students with faculty whose information about various sociology programs is always the most current. The sociology advisor will also see freshmen and sophomores exploring the major in sociology. See

academic advising (<https://sociology.wisc.edu/undergraduate-program/academic-advising/>) for more information.

**PREREQUISITES, L&S BREADTH, AND COURSE LEVELS**

Sociology course numbers over 300 indicate subject matter rather than level of difficulty. Unless indicated otherwise, prerequisites at the upper level are junior standing and an introductory course in sociology or consent of instructor.

Most courses in sociology count toward the social studies breadth requirement. Courses SOC/GEN&WS 200 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies, SOC/ASIAN/GEOG/HISTORY/POLI SCI 244 Introduction to Southeast Asia: Vietnam to the Philippines, and SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 Africa: An Introductory Survey count toward breadth requirements in either humanities or social studies. The following do not count toward any breadth requirement:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC 362	Statistics for Sociologists III	4
SOC 496	Topics in Sociology	1-3
SOC/C&E SOC 693	Practicum in Analysis and Research	3
SOC/LEGAL ST 694	Criminal Justice Field Observation	2-3

**CAREERS**

Sociology majors do very well in the job market. The critical, analytic, and quantitative skills they have mastered in the major, along with their commitments to social justice and their understanding of organizations make them desirable job candidates. Every year the department invites sociology alumni to campus for career panels or "speed mentoring." Current sociology majors get to talk to people only slightly older than themselves who have successfully made the transitions from undergraduate to professional.

Sociology also has an advisor devoted exclusively to careers. This advisor teaches a 1-credit course where students learn the arts of resume building and resume writing, applying for and getting internships, and in which they practice self-reflection activities which lead to insights about what they really want to do after college, and where they learn how to make connections between their academic work and their work in the "real world." This advisor is also available for one-on-one advising.

Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers). See SuccessWorks for more information.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:** Professors Schwartz (chair, Sociology), Borman (affiliated), Carlson, Elwert, Emirbayer, Ermakoff, Fletcher, Freeland, Friedland (affiliated), Fujimura, Gerber, Goldberg, Grodsky, Lim, Logan, Massoglia, Maynard, Montgomery, Morales (affiliated), Nobles, Nordheim (affiliated), Rogers (director, COWS), Schaeffer (director, UWSC), Seidman, Thornton (affiliated); Associate Professors Christens (affiliated), Conti, Eason, Engelman, Feinstein, Grant (director, Graduate Studies), Higgins (affiliated), Light, Shoemaker (affiliated); Assistant Professors Addo (affiliated), Conwell, Halpern-Meekin (affiliated), Jensen, Leachman (affiliated), O'Brien (affiliated), Oh, Simmons (affiliated), Xiong (affiliated).

For more information about individual faculty members, the research they do, and the classes they teach, see the Sociology web page (<https://sociology.wisc.edu/faculty/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning described below—tools, breadth, and depth—work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences

comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

Additional information about the Wisconsin Experience can be found through the Office of Admissions and Recruitment/Why UW link ([https://www.admissions.wisc.edu/why/wisconsin\\_experience.php](https://www.admissions.wisc.edu/why/wisconsin_experience.php)).

## SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH

### REQUIREMENTS

The Concentration in Analysis and Research—an elective option within the undergraduate sociology major—is designed for students who do well and are interested in research methods and statistics. CAR prepares students for entry-level jobs in applied social research and/or for graduate study. Key features of the concentration include advanced statistics courses, training in social science computing, and research. By selecting appropriate electives and internships, students may focus their training on demography, survey research, marketing and communications, criminal justice, health care, education, social services, natural resources, organizations, or personnel and human resources.

### REQUIREMENTS FOR THE CAR OPTION (CAR)

#### 36 CREDITS OF SOC, TO INCLUDE: <sup>1</sup>

All requirements for the general Sociology major

All students are required to take four foundation core courses (Introduction, Research, Statistics, and Theory) and additional CAR Distribution courses in Statistics, Research, Computing, and Practicum that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses and the option has several sequenced courses, some of which are taught only once a year.

### REQUIREMENTS

36 credits in SOC courses to include Foundation (Core) requirements for the general Sociology major (above), plus these CAR-specific requirements: <sup>1</sup>

#### CAR REQUIREMENTS

Code	Title	Credits
<b>Two Additional Statistics courses are required</b>		
SOC/C&E SOC 361 or ECON 410 or STAT 302	Statistics for Sociologists II Introductory Econometrics Accelerated Introduction to Statistical Methods	3
SOC 362 or STAT 312	Statistics for Sociologists III Introduction to Theory and Methods of Mathematical Statistics II	3

#### Data Management

SOC/C&E SOC 365 Data Management for Social Science Research 3-4

**Distribution - Two Research Electives from:**<sup>2</sup> **6**

SOC 351	Introduction to Survey Methods for Social Research	
SOC 375	Introduction to Mathematical Sociology	
SOC 376	Mathematical Models of Social Systems	
SOC 535	Talk and Social Interaction	
SOC 575	Sociological Perspectives on the Life Course and Aging	
SOC/AMER IND/ C&E SOC 578	Poverty and Place	
SOC 633	Social Stratification	
SOC 674	Demographic Techniques I	
SOC/ C&E SOC 676	Applied Demography: Planning and Policy	
COMP SCI 371		
MATH 415	Applied Dynamical Systems, Chaos and Modeling	
MATH/ISYE/ OTM/STAT 632	Introduction to Stochastic Processes	
POLI SCI 305	Elections and Voting Behavior	
POLI SCI 515	Public Opinion	
PSYCH 225	Research Methods	
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT/BMI 642	Statistical Methods for Epidemiology	
INFO SYS 371	Technology of Computer-Based Business Systems	
MARKETNG 310	Marketing Research	

**Research Practicum**

SOC/C&E SOC 693 Practicum in Analysis and Research 3

**Total Credits 18-19**

1

Although students may choose courses outside of the SOC subject to meet some requirements of the CAR option, all 36 of the credits required for this major option must be in SOC courses.

In addition, students must complete the Residence & Quality of Work requirement which includes 15 credits of Upper Level work in the major, taken in Residence. Major courses outside of SOC do compute into the major GPA, but are not considered Upper Level for purposes of this requirement.

2

Unlike the general major, CAR option students are required to complete two (not four) courses in distribution, among the courses listed as Research Electives.

## CAR OPTION QUALITY OF WORK

A minimum 3.000 GPA on all CAR-specific courses is required at the time of graduation.

### FOUR-YEAR PLAN

#### First Year

Fall	Credits	Spring	Credits
Communication A	3	SOC/C&E SOC 210 or 211 (SOC 211 also satisfies Communication B)	3-4
Quantitative Reasoning A	3	SOC/C&E SOC 357	4
Foreign Language (if required)	4	Biological Science Breadth	3
Ethnic Studies (may be taken in the major)	3	Intermediate MATH, COMP SCI or STAT (for B.S.)	3
Physical Science Breadth	3		
	<b>16</b>		<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
SOC/C&E SOC 360 (satisfies Quantitative Reasoning B)	4	SOC/C&E SOC 475	3
INTER-LS 210	1	SOC Distribution (upper level)	4
Humanities Breadth	3	Natural Science Breadth	3
Science Breadth	3	Literature Breadth	3
Elective	4	Elective	2
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
Declare the major		SOC Distribution (upper level)	4
Humanities Breadth	6	SOC/C&E SOC 365	3-4
SOC Distribution (upper level)	4	CAR Research Elective	4
Additional statistics for CAR option	3	Electives	3
Electives	2		
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
SOC Distribution (upper level)	3	SOC/C&E SOC 693	3
CAR option Research Elective	3	Electives	12
Electives	9		
	<b>15</b>		<b>15</b>

**Total Credits 120**

# SOCIOLOGY, B.S.

Sociology applies the methods of science to explain social behavior. The interactions of individuals in families, groups, or organizations, and the institutions, social class, or shared beliefs of a common culture are all subjects for sociological research. There are many career opportunities open to people who complete a major in sociology, including business, counseling and social service, public policy, law, and criminal justice.

Students interested in sociology should meet with the undergraduate advisor before they register for the second semester of the sophomore year. The undergraduate office's resource center holds detailed information about the major, the department, research interests of sociology faculty, career opportunities, and student work. Declaration of the major during the sophomore year will give students access to required sociology courses for fall of the junior year.

## CRIMINAL JUSTICE CERTIFICATE

Sociology majors wishing to earn a certificate in criminal justice may do so with a minimum of additional course requirements and permission of the Criminal Justice advisor. See Criminal Justice (p. 559) section in this Guide.

## ENROLLMENT

Required courses for the sociology major and for the CAR option may have temporary course controls that send non-declared students "Course Requisites Not Met" enrollment error messages. Certain 100-numbered courses each semester are restricted to freshmen and sophomores until freshmen have enrolled. Check the Course Guide for notes each semester.

Transfer students whose equivalent courses have been posted to their records as "electives," numbered XXX, may use those courses as prerequisites if the department approves their equivalencies to similar UW-Madison courses. What is needed is a conversation with the undergraduate advisor either in the office or at SOAR.

## HONORS PROGRAM

A variety of courses in sociology offer honors credit, and may be used toward Honors in the Liberal Arts in the College of Letters & Science. These include the special honors introductory seminar, Sociology 181, Sociology 380 Contemporary Population Problems, other special honors sections of 100- and 200-level courses, and courses that provide honors by arrangement with the instructor. Sociology also has courses that award automatic honors, including SOC 362 Statistics for Sociologists III and SOC/C&E SOC 693 Practicum in Analysis and Research, and certain other upper-division courses designated by semester in the Course Guide. Sociology also makes special offerings of upper-level courses available to sophomores in the honors program for one semester at a time.

## HOW TO GET IN

Students must meet with the undergraduate advisor and review the requirements prior to declaring the major.

To declare the Concentration in Analysis and Research, students must have completed SOC/C&E SOC 360 and SOC/C&E SOC 357 with a 3.000 GPA between the two courses.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics	Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.
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Foreign Language	Complete the third unit of a foreign language.
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L&S Breadth	Complete: <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include at least 6 credits of Literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.</li> </ul>
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Liberal Arts and Science Coursework	Complete at least 108 credits.
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Depth of Intermediate/ Complete at least 60 credits at the Intermediate or Advanced level.

Advanced Coursework

Major Declare and complete at least one major.

Total Credits Complete at least 120 credits.

UW-Madison Complete both:

Experience • 30 credits in residence, overall, and  
• 30 credits in residence after the 86th credit.

Quality of Work • 2.000 in all coursework at UW-Madison

• 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

A minimum of 30 credits in SOC courses is required for the basic major. Students are strongly encouraged to complete the Foundation courses as early as possible; these courses are prerequisites for most upper-level SOC courses.

### FOUNDATION (CORE)

Code	Title	Credits
<b>Introduction to SOC (1 course)</b>		
SOC/ C&E SOC 210	Survey of Sociology	3-4
SOC/ C&E SOC 211	The Sociological Enterprise	
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	
<b>Research Methods<sup>1</sup></b>		
SOC/C&E SOC 357	Methods of Sociological Inquiry (Research Methods)	3-4
<b>Statistics<sup>2</sup></b>		
SOC/C&E SOC 360	Statistics for Sociologists I	3-4
or ECON 310	Statistics: Measurement in Economics	
or GEOG 360	Quantitative Methods in Geographical Analysis	
or MATH/ STAT 310	Introduction to Probability and Mathematical Statistics II	
or PSYCH 210	Basic Statistics for Psychology	
or STAT 301	Introduction to Statistical Methods	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Classical Theory</b>		
SOC/C&E SOC 475	Classical Sociological Theory	3
<b>Total Credits</b>		<b>12-15</b>

1

Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, we recommend taking methods before statistics as an entry point to the methods and materials of the field.

2

Statistics courses taken outside of the SOC subject do not count for 30-credits required in the major, nor are they upper level in the major.

## DISTRIBUTION

4 courses from at least 2 of these areas:

### Methods/Statistics

Code	Title	Credits
SOC 351	Introduction to Survey Methods for Social Research	3
SOC/C&E SOC 361	Statistics for Sociologists II	4
SOC 362	Statistics for Sociologists III	4
SOC/C&E SOC 365	Data Management for Social Science Research	3-4
SOC 375	Introduction to Mathematical Sociology	3
SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics	1-6

### Theory

Code	Title	Credits
SOC 462	Study Abroad in Additional Theory	1-6
SOC 476	Contemporary Sociological Theory	3

### Deviant Behavior

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/ SOC WORK 422	Social Issues in Aging	3
SOC 441	Criminology	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior	1-6
SOC/GEN&WS/ LEGAL ST 425	Crime, Gender and Justice	3
SOC/CHICLA/ LEGAL ST 443	Immigration, Crime, and Enforcement	3-4
SOC/CHICLA/ LEGAL ST 440	Ethnicity, Race, and Justice	3-4

### Social Psychology

Code	Title	Credits
SOC/PSYCH 453	Human Sexuality	4
SOC 464	Study Abroad in Social Psychology	1-6
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3

SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
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SOC 575	Sociological Perspectives on the Life Course and Aging	3
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## Social Organization

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 465	Study Abroad in Social Organization	1-6
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

## Demography and Ecology

Code	Title	Credits
SOC 460	Study Abroad in Demography and Ecology	1-6
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3
SOC 674	Demographic Techniques I	3

## Community and Environmental Sociology

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3

SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

## ELECTIVES

Additional SOC courses to achieve the required 30 credits for the major.<sup>4</sup>

### 4

A maximum one introductory course (SOC 181, SOC/C&E SOC 210, SOC/C&E SOC 211) may count toward the 30 required for the major.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in all SOC courses and courses that count toward the major
- 2.000 GPA on 15 upper-level major credits, taken in Residence<sup>5</sup>
- 15 credits in SOC, taken on the UW–Madison campus

### 5

SOC courses numbered 300–699 are upper level, except for: C&E SOC/SOC 357, C&E SOC/SOC 360, LEGAL ST/SOC 415, PSYCH/SOC 453, and SOC 497.

## SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH OPTION

View as listView as grid

- SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH (P. 1395)

## HONORS IN THE MAJOR

Students may declare Honors in the Sociology Major in consultation with the Sociology undergraduate advisor.

## HONORS IN THE SOCIOLOGY MAJOR: REQUIREMENTS

To earn Honors in the Major in Sociology, students must satisfy the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA for all SOC courses, and all courses accepted in the major
- Complete 21 credits, taken for Honors, with individual grades of B or better, to include:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	4
SOC/C&E SOC 475	Classical Sociological Theory	3
SOC 681	Senior Honors Thesis	3
SOC 682	Senior Honors Thesis	3

The remaining Honors credits, to reach the 21 credit minimum, must be in courses at or above the 300 level.

Students may declare the Concentration in Analysis and Research ("CAR"). Speak to the major advisor about this option.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Conduct Research and Analyze Data) Sociology encompasses both qualitative and quantitative research methods. Quantitative methods are used in market research, opinion polling, sales, government, and countless other applications and allow researchers to recognize trends and patterns and produce social statistics. Qualitative research skills provide an in depth understanding of interactions, communications, worksite practices, and social worlds. Advanced sociological research methods require graduate-level training beyond the scope of our undergraduate major, but we expect that all undergraduate majors will be able to conduct small-scale research using surveys, interviews, experiments, textual analysis or observations in which they formulate a research question, collect data, analyze results, and draw conclusions.
- (Critically Evaluate Published Research) Sociology graduates will be able to read and evaluate published research as it appears in academic journals and popular or policy publications. They will be able to identify the research methods used, assess the quality of the sample, assess the quality of measurements and procedures, evaluate the links between the data and the interpretations, identify possible threats to the validity of the results, and provide an overall assessment of the trustworthiness of the research results. They will be able to read and evaluate a set of research articles on the same broad issue and be able to draw summarize the research findings across multiple issue.
- (Communicate Skillfully) Because the sociology major involves a large amount of reading, writing, and discussion, majors learn how to convey ideas effectively in writing, presentations, and everyday conferences and meetings. Sociology majors write papers and make oral presentations that build arguments and assess evidence in a clear and effective manner.
- (Critical Thinking about Society and Social Processes) Sociological inquiry involves learning to look beyond the surface of issues to

discover the "why" and "how" of social order and structure. Sociology majors develop strong analytical skills and learn to solve problems and identify opportunities. They are able to consider the underlying social mechanisms that may be creating a situation, identify evidence that may adjudicate between alternate explanations for phenomena, and develop proposed policies or action plans in light of theory and data.

- (See Things from a Global Perspective) Sociologists learn about different cultures, groups, and societies. They examine both variation and universality across places and through history. They are aware of the diversity of backgrounds and experiences among residents of the United States. They understand the ways events and processes in one country are linked to those in other countries.
- (Prepare for Graduate School and the Job Market) An undergraduate major in sociology provides an excellent foundation for work and graduate study in a wide range of fields including law, business, social work, medicine, policy research, public health, public administration and, of course, sociology. With the aid of faculty and staff, students use their social research skills to identify opportunities for employment or further study, assess their qualifications for these opportunities, and identify strategies for gaining the necessary knowledge and experience to improve their qualifications. Students are encouraged to develop and maintain portfolios of their written work and educational experiences to aid them in preparing applications.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A		3 SOC/C&E SOC 210 or 211 (SOC 211 also satisfies Communication B)	3-4
Quantitative Reasoning A		3 SOC/C&E SOC 357	4
Foreign Language (if required)		4 Biological Science Breadth	3
Ethnic Studies (may be taken in the major)		3 Intermediate MATH, COMP SCI or STAT (for B.S.)	3
Physical Science Breadth		3	
		<b>16</b>	<b>14</b>

#### Second Year

Fall	Credits	Spring	Credits
SOC/C&E SOC 360 (satisfies Quantitative Reasoning B)		4 SOC/C&E SOC 475	3
INTER-LS 210		1 SOC Distribution (upper level)	4
Humanities Breadth		3 Natural Science Breadth	3



Science Breadth	3 Literature Breadth	3
Elective	4 Elective	2
		<b>15</b>

**Third Year**

Fall	Credits	Spring	Credits
Declare the major		SOC Distribution (upper level)	4
Humanities Breadth	6 Electives		11
SOC Distribution (upper level)	4		
Electives	5		
		<b>15</b>	<b>15</b>

**Fourth Year**

Fall	Credits	Spring	Credits
SOC Distribution (upper level)		3 SOC elective	4
Electives	12 Electives		11
		<b>15</b>	<b>15</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING**

This university is a very big place. Even the most well-prepared new students will have moments when they say to themselves, "Uh oh. What have I got myself into going to such a big school? Choosing courses at SOAR was stressful, fun, or both, but after SOAR am I on my own?" The answer is no. Every student has at least one assigned advisor. Over the course of their time at the university, students may have several assigned advisors. That is a good thing; L&S advisors are highly networked, and they always communicate with each other about shared students.

When students read their DARS reports—documents that were developed to help them find their way to a timely graduation, they can feel overwhelmed; it looks like they need 500 credits to graduate. How can they get all those requirements done? Do sociology (or Spanish, or English) majors really have to take biology courses?

In the Sociology Department, we take advising very seriously. We encourage our majors to see the advisor at least once every semester. The advisor will help you summarize the DARS and map your completed coursework onto the goals and timeline for graduation, including the sociology major and L&S requirements. The sociology advisor will have departmental or college news about guest speakers, new faculty, new courses, internships, and scholarships. This advisor will also be able to assist in preparation for, and applications to graduate school, and be able to connect students with faculty whose information about various sociology programs is always the most current. The sociology advisor will also see freshmen and sophomores exploring the major in sociology. See academic advising (<https://sociology.wisc.edu/undergraduate-program/academic-advising/>) for more information.

**PREREQUISITES, L&S BREADTH, AND COURSE LEVELS**

Sociology course numbers over 300 indicate subject matter rather than level of difficulty. Unless indicated otherwise, prerequisites at the upper

level are junior standing and an introductory course in sociology or consent of instructor.

Most courses in sociology count toward the social studies breadth requirement. Courses SOC/GEN&WS 200 Introduction to Lesbian, Gay, Bisexual, Transgender and Queer+ Studies, SOC/ASIAN/GEOG/HISTORY/POLI SCI 244 Introduction to Southeast Asia: Vietnam to the Philippines, and SOC/AFRICAN/AFROAMER/ANTHRO/GEOG/HISTORY/POLI SCI 277 Africa: An Introductory Survey count toward breadth requirements in either humanities or social studies. The following do not count toward any breadth requirement:

Code	Title	Credits
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
SOC/C&E SOC 360	Statistics for Sociologists I	4
SOC 362	Statistics for Sociologists III	4
SOC 496	Topics in Sociology	1-3
SOC/C&E SOC 693	Practicum in Analysis and Research	3
SOC/LEGAL ST 694	Criminal Justice Field Observation	2-3

**CAREERS**

Sociology majors do very well in the job market. The critical, analytic, and quantitative skills they have mastered in the major, along with their commitments to social justice and their understanding of organizations make them desirable job candidates. Every year the department invites sociology alumni to campus for career panels or "speed mentoring." Current sociology majors get to talk to people only slightly older than themselves who have successfully made the transitions from undergraduate to professional.

Sociology also has an advisor devoted exclusively to careers. This advisor teaches a 1-credit course where students learn the arts of resume building and resume writing, applying for and getting internships, and in which they practice self-reflection activities which lead to insights about what they really want to do after college, and where they learn how to make connections between their academic work and their work in the "real world." This advisor is also available for one-on-one advising.

Our career advisor also partners with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers). See SuccessWorks for more information.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

**Faculty:** Professors Schwartz (chair, Sociology), Borman (affiliated), Carlson, Elwert, Emirbayer, Ermakoff, Fletcher, Freeland, Friedland (affiliated), Fujimura, Gerber, Goldberg, Grodsky, Lim, Logan, Massoglia, Maynard, Montgomery, Morales (affiliated), Nobles, Nordheim (affiliated), Rogers (director, COWS), Schaeffer (director, UWSC), Seidman, Thornton (affiliated); Associate Professors Christens (affiliated), Conti, Eason, Engelman, Feinstein, Grant (director, Graduate Studies), Higgins (affiliated), Light, Shoemaker (affiliated); Assistant Professors Addo (affiliated), Conwell, Halpern-Meehin (affiliated), Jensen, Leachman (affiliated), O'Brien (affiliated), Oh, Simmons (affiliated), Xiong (affiliated).

For more information about individual faculty members, the research they do, and the classes they teach, see the Sociology web page (<https://sociology.wisc.edu/faculty/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE: ESSENTIAL LEARNING IN THE COLLEGE OF LETTERS & SCIENCE

The three elements of learning described below—tools, breadth, and depth—work together to create a broad and rich education in the liberal arts and sciences, and promote attainment of core areas of essential learning: knowledge of human cultures and the natural and physical world, intellectual and practical skills, personal and social responsibility, and integrative and applied learning. These and countless other experiences comprise the Letters & Science approach to helping students obtain a distinctive *Wisconsin Experience*.

Additional information about the Wisconsin Experience can be found through the Office of Admissions and Recruitment/Why UW link ([https://www.admissions.wisc.edu/why/wisconsin\\_experience.php](https://www.admissions.wisc.edu/why/wisconsin_experience.php)).

## SOCIOLOGY: CONCENTRATION IN ANALYSIS AND RESEARCH

### REQUIREMENTS

The Concentration in Analysis and Research—an elective option within the undergraduate sociology major—is designed for students who do well and are interested in research methods and statistics. CAR prepares students for entry-level jobs in applied social research and/or for graduate study. Key features of the concentration include advanced statistics courses, training in social science computing, and research. By selecting appropriate electives and internships, students may focus their training on demography, survey research, marketing and communications, criminal justice, health care, education, social services, natural resources, organizations, or personnel and human resources.

### REQUIREMENTS FOR THE CAR OPTION (CAR)

#### 36 CREDITS OF SOC, TO INCLUDE:<sup>1</sup>

All requirements for the general Sociology major

All students are required to take four foundation core courses (Introduction, Research, Statistics, and Theory) and additional CAR Distribution courses in Statistics, Research, Computing, and Practicum that build on prior sociological and social scientific knowledge from the foundation core courses.

Students are strongly encouraged to complete the four required foundation core courses as early as possible. These foundation courses are prerequisites for most upper-level courses and the option has several sequenced courses, some of which are taught only once a year.

### REQUIREMENTS

36 credits in SOC courses to include Foundation (Core) requirements for the general Sociology major (above), plus these CAR-specific requirements:<sup>1</sup>

#### CAR REQUIREMENTS

Code	Title	Credits
<b>Two Additional Statistics courses are required</b>		
SOC/C&E SOC 361 or ECON 410 or STAT 302	Statistics for Sociologists II Introductory Econometrics Accelerated Introduction to Statistical Methods	3
SOC 362 or STAT 312	Statistics for Sociologists III Introduction to Theory and Methods of Mathematical Statistics II	3
<b>Data Management</b>		
SOC/C&E SOC 365	Data Management for Social Science Research	3-4
<b>Distribution - Two Research Electives from:<sup>2</sup></b>		<b>6</b>
SOC 351	Introduction to Survey Methods for Social Research	

SOC 375	Introduction to Mathematical Sociology
SOC 376	Mathematical Models of Social Systems
SOC 535	Talk and Social Interaction
SOC 575	Sociological Perspectives on the Life Course and Aging
SOC/AMER IND/ C&E SOC 578	Poverty and Place
SOC 633	Social Stratification
SOC 674	Demographic Techniques I
SOC/ C&E SOC 676	Applied Demography: Planning and Policy
COMP SCI 371	
MATH 415	Applied Dynamical Systems, Chaos and Modeling
MATH/ISYE/ OTM/STAT 632	Introduction to Stochastic Processes
POLI SCI 305	Elections and Voting Behavior
POLI SCI 515	Public Opinion
PSYCH 225	Research Methods
STAT 349	Introduction to Time Series
STAT 351	Introductory Nonparametric Statistics
STAT 411	An Introduction to Sample Survey Theory and Methods
STAT 421	Applied Categorical Data Analysis
STAT/BMI 642	Statistical Methods for Epidemiology
INFO SYS 371	Technology of Computer-Based Business Systems
MARKETNG 310	Marketing Research
<b>Research Practicum</b>	
SOC/C&E SOC 693	Practicum in Analysis and Research

**Total Credits** **18-19**

1  
Although students may choose courses outside of the SOC subject to meet some requirements of the CAR option, all 36 of the credits required for this major option must be in SOC courses.

In addition, students must complete the Residence & Quality of Work requirement which includes 15 credits of Upper Level work in the major, taken in Residence. Major courses outside of SOC do compute into the major GPA, but are not considered Upper Level for purposes of this requirement.

2  
Unlike the general major, CAR option students are required to complete two (not four) courses in distribution, among the courses listed as Research Electives.

## CAR OPTION QUALITY OF WORK

A minimum 3.000 GPA on all CAR-specific courses is required at the time of graduation.

## FOUR-YEAR PLAN

### First Year

Fall	Credits	Spring	Credits
Communication A		3 SOC/C&E SOC 210 or 211 (SOC 211 also satisfies Communication B)	3-4
Quantitative Reasoning A		3 SOC/C&E SOC 357	4
Foreign Language (if required)		4 Biological Science Breadth	3
Ethnic Studies (may be taken in the major)		3 Intermediate MATH, COMP SCI or STAT (for B.S.)	3
Physical Science Breadth		3	
		<b>16</b>	<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
SOC/C&E SOC 360 (satisfies Quantitative Reasoning B)		4 SOC/C&E SOC 475	3
INTER-LS 210		1 SOC Distribution (upper level)	4
Humanities Breadth		3 Natural Science Breadth	3
Science Breadth		3 Literature Breadth	3
Elective		4 Elective	2
		<b>15</b>	<b>15</b>

### Third Year

Fall	Credits	Spring	Credits
Declare the major		SOC Distribution (upper level)	4
Humanities Breadth		6 SOC/C&E SOC 365	3-4
SOC Distribution (upper level)		4 CAR Research Elective	4
Additional statistics for CAR option		3 Electives	3
Electives		2	
		<b>15</b>	<b>15</b>

### Fourth Year

Fall	Credits	Spring	Credits
SOC Distribution (upper level)		3 SOC/C&E SOC 693	3
CAR option Research Elective		3 Electives	12
Electives		9	
		<b>15</b>	<b>15</b>

**Total Credits 120**

## SPANISH AND PORTUGUESE

The Department of Spanish & Portuguese offers an integrated curriculum in introductory and specialized instruction in Spanish and Portuguese languages, literatures, and linguistics for undergraduates to fulfill major, college, and campus requirements as well as for those seeking

fluency and a solid language preparation for other opportunities. The objectives and goals of the undergraduate majors include the skills of advanced proficiency in oral communication and written expression, an understanding of Hispanic and Luso-Brazilian cultures, general familiarity with aspects of Hispanic and Luso-Brazilian literatures, and an understanding of aspects of Ibero-Romance linguistics.

## DEGREES/MAJORS/CERTIFICATES

- Portuguese, B.A. (p. 1404)
- Portuguese, B.S. (p. 1407)
- Spanish Studies for Business Students, Certificate (p. 1410)
- Spanish, B.A. (p. 1412)
- Spanish, B.S. (p. 1416)

## PEOPLE

Professors Alcalá-Galán, Beilin, Bilbija, Close, De Ferrari, Egea, Goldgel-Carballo, Hernández, Hutchinson, Medina, Podestá, Rao, Sanchez, Sapega, Tejedo-Herrero

Associate Professors Ancos-García, Armstrong, Cerezo Paredes, Pellegrini, Stafford

Lecturer Mercado

Teaching Faculty Álvarez Oquendo, Fondow, Neumayer, Pujol, Rodríguez-Guridi

Editor Ríos Rodríguez

Department Administrator Deavers

Administrative Assistant Weeks

Financial Specialist Deavers

Graduate Program Manager Zimmer

Undergraduate Advisor Francis

## PORTUGUESE, B.A.

Here are some of the many reasons to learn Portuguese.

- Close to 250 million people speak Portuguese. Brazil alone has a population of 205 million.
- Portuguese is the sixth most widely spoken language in the world, before German (10th), French (11th) and Italian (15th).
- Portuguese is spoken in 11 countries on four continents. Portuguese is the official language of Portugal, Brazil, Angola, Cape Verde, Guinea-Bissau, Mozambique, São Tomé and Príncipe, East Timor, and is also widely spoken in Equatorial Guinea, Macau (China), and Goa (India).
- Portuguese is a working and/or official language of important international organizations, such as the African Union, the Community of Portuguese Language Countries, the European Union, Mercosul, the Organization of American States, and the Organization of Ibero-American States.
- An estimated 1.3 million native Portuguese-speakers live in the United States.

- To study Portuguese is an asset in today's global economy. For example, Brazil's economy is among the largest in the world.
- The Portuguese novelist José Saramago won the 1998 Nobel Prize for Literature. The music, festivities, culture, and art of the Portuguese-speaking countries are appreciated all over the world.
- Portuguese shares some grammar rules, sentence structure, and similar vocabulary words with other Romance languages. If you already speak French, Spanish or Italian, Portuguese is an easy and fun language to learn.
- You will certainly enjoy our Portuguese classes that are student-focused and culturally engaging. Our 101-102 textbook will soon be available as an interactive open-access e-book.
- Last but not least, Brazil is the only country that has won the World Soccer Cup Championship five times.

## HOW TO GET IN

Students may declare at any time in consultation with the Portuguese undergraduate advisor.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of

Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

## BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

**Foreign Language**

- Complete the fourth unit of a foreign language; OR
- Complete the third unit of a foreign language and the second unit of an additional foreign language.

**L&S Breadth**

- 12 credits of Humanities, which must include 6 credits of literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced work** Complete at least 60 credits at the intermediate or advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience**

- 30 credits in residence, overall; and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

### 25 CREDITS FROM PORTUG 202-699, TO INCLUDE:

Code	Title	Credits
<b>Portuguese Literature</b>		
PORTUG 221	Introduction to Luso-Brazilian Literatures	4
And complete one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG/GEN&WS 450	Brazilian Women Writers	

PORTUG/AFRICAN 451 Lusophone African Literature

PORTUG 467 Survey of Portuguese Literature since 1825

PORTUG 468 Survey of Brazilian Literature since 1890

### Portuguese Culture/Civilization (complete one): 3

PORTUG 361 Portuguese Civilization

PORTUG 362 Brazilian Civilization

PORTUG 364 Historical and Cultural Traditions of Brazil

PORTUG/GEN&WS 460 Carmen Miranda

PORTUG 642 Topics in Luso-Brazilian Culture

### Composition and Conversation (complete two): 6

PORTUG 225 Third Year Conversation and Composition

PORTUG 226 Third Year Conversation and Composition

PORTUG 311 Fourth Year Composition and Conversation

PORTUG 312 Fourth Year Composition and Conversation

### Elective Courses from PORTUG 202-699<sup>1</sup> 9

**Total Credits 25**

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in PORTUG and all major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits in PORTUG, taken at UW-Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Portuguese undergraduate advisor.

### HONORS IN THE PORTUGUESE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn 3.500 GPA for all PORTUG courses at or above PORTUG 302, and any course that counts for the major
- Complete at least 16 credits, taken for Honors, with individual grades of B or better, to include:
  - 10 credits from PORTUG 202 to 680, excluding PORTUG 301
  - A two-semester Senior Honors Thesis in PORTUG 681 and PORTUG 682, for a total of 6 credits.

## FOOTNOTES

1

May not include PORTUG 301 which is the equivalent of PORTUG 101 and PORTUG 102.

2

PORTUG courses with the Advanced level designation are considered upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop communication skills in Portuguese and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Portuguese.
2. Demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Portuguese, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
3. Demonstrate knowledge of Lusophone cultures across historical epochs, including awareness of the social, cultural, and linguistic diversity that characterizes the Portuguese-speaking world.
4. Demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
PORTUG 101		4 PORTUG 102	4
Communication A		3 Ethnic Studies	3
Quantitative Reasoning A		3 Biological Science Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Elective		2 Elective	3
		<b>15</b>	<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
PORTUG 201		4 PORTUG 202	4
First Semester of Another Romance Language		4 Second Semester of Another Romance Language	4
Communication B Literature in Translation 226, a Communication-B course, often meets with Portuguese 221.		3-4 Physical Science Breadth	3
Elective		3 Social Science Breadth	3
INTER-LS 210		1	
		<b>15</b>	<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
PORTUG 225		3 PORTUG 226	3
Quantitative Reasoning B / Intermediate/ Advanced COMP SCI/ MATH/STAT <sup>if needed for B.S.</sup>		3 PORTUG 221	4
Social Science Breadth		3 Intermediate/Advanced COMP SCI/MATH/STAT if needed for B.S.	3
Electives		6 Electives	6
		<b>15</b>	<b>16</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Portuguese Culture/ Civilization		3 Additional Portuguese Literature	3
Portuguese Elective		3 Portuguese Elective	3
Science Breadth		3 Science Breadth	3
Electives		6 Electives	5
		<b>15</b>	<b>14</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

**Karen Francis, Undergraduate Advisor**

karen.francis@wisc.edu  
608-265-3183  
1008 Van Hise Hall  
1220 Linden Drive

Spanish & Portuguese Undergraduate Advising (<https://spanport.wisc.edu/undergrad-advising/>)

## CAREERS

### International Directions Advisor

1322 Van Hise Hall

1220 Linden Drive

<https://languages.wisc.edu/beyond/careers> (<https://languages.wisc.edu/beyond/careers/>)

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Alcalá-Galán, Beilin, Bilbija, Close, De Ferrari, Egea, Goldgel-Carballo, Hernández, Hutchinson, Medina, Podestá, Rao, Sanchez, Sapega, Tejedo-Herrero

Associate Professors Ancos-García, Armstrong, Cerezo Paredes, Pellegrini, Stafford

Lecturer Mercado

Teaching Faculty Álvarez Oquendo, Fondow, Neumayer, Pujol, Rodríguez-Guridi

Editor Ríos Rodríguez

Department Administrator Deavers

Administrative Assistant Weeks

Financial Specialist Deavers

Graduate Program Manager Zimmer

Undergraduate Advisor Francis

## PORTUGUESE, B.S.

Here are some of the many reasons to learn Portuguese.

- Close to 250 million people speak Portuguese. Brazil alone has a population of 205 million.
- Portuguese is the sixth most widely spoken language in the world, before German (10th), French (11th) and Italian (15th).
- Portuguese is spoken in 11 countries on four continents. Portuguese is the official language of Portugal, Brazil, Angola, Cape Verde, Guinea-Bissau, Mozambique, São Tomé and Príncipe, East Timor, and is also widely spoken in Equatorial Guinea, Macau (China), and Goa (India).
- Portuguese is a working and/or official language of important international organizations, such as the African Union, the Community of Portuguese Language Countries, the European Union, Mercosul, the Organization of American States, and the Organization of Ibero-American States.
- An estimated 1.3 million native Portuguese-speakers live in the United States.
- To study Portuguese is an asset in today's global economy. For example, Brazil's economy is among the largest in the world.
- The Portuguese novelist José Saramago won the 1998 Nobel Prize for Literature. The music, festivities, culture, and art of the Portuguese-speaking countries are appreciated all over the world.
- Portuguese shares some grammar rules, sentence structure, and similar vocabulary words with other Romance languages. If you already speak French, Spanish or Italian, Portuguese is an easy and fun language to learn.
- You will certainly enjoy our Portuguese classes that are student-focused and culturally engaging. Our 101-102 textbook will soon be available as an interactive open-access e-book.
- Last but not least, Brazil is the only country that has won the World Soccer Cup Championship five times.

## HOW TO GET IN

Students may declare at any time in consultation with the Portuguese undergraduate advisor.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW–Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work** • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR 25 CREDITS FROM PORTUG 202-699, TO INCLUDE:

Code	Title	Credits
<b>Portuguese Literature</b>		
PORTUG 221	Introduction to Luso-Brazilian Literatures	4
And complete one of the following:		3
PORTUG 411	Survey of Portuguese Literature before 1825	
PORTUG 412	Survey of Brazilian Literature before 1890	
PORTUG/ GEN&WS 450	Brazilian Women Writers	
PORTUG/ AFRICAN 451	Lusophone African Literature	
PORTUG 467	Survey of Portuguese Literature since 1825	
PORTUG 468	Survey of Brazilian Literature since 1890	
<b>Portuguese Culture/Civilization (complete one):</b>		<b>3</b>
PORTUG 361	Portuguese Civilization	
PORTUG 362	Brazilian Civilization	
PORTUG 364	Historical and Cultural Traditions of Brazil	
PORTUG/ GEN&WS 460	Carmen Miranda	
PORTUG 642	Topics in Luso-Brazilian Culture	
<b>Composition and Conversation (complete two):</b>		<b>6</b>
PORTUG 225	Third Year Conversation and Composition	
PORTUG 226	Third Year Conversation and Composition	
PORTUG 311	Fourth Year Composition and Conversation	
PORTUG 312	Fourth Year Composition and Conversation	
<b>Elective Courses from PORTUG 202-699 <sup>1</sup></b>		<b>9</b>
<b>Total Credits</b>		<b>25</b>



## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in PORTUG and all major courses
- 2.000 GPA on 15 upper-level major credits in residence<sup>2</sup>
- 15 credits in PORTUG, taken at UW–Madison

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Portuguese undergraduate advisor.

### HONORS IN THE PORTUGUESE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn 3.500 GPA for all PORTUG courses at or above PORTUG 302, and any course that counts for the major
- Complete at least 16 credits, taken for Honors, with individual grades of B or better, to include:
  - 10 credits from PORTUG 202 to 680, excluding PORTUG 301
  - A two-semester Senior Honors Thesis in PORTUG 681 and PORTUG 682, for a total of 6 credits.

## FOOTNOTES

1

May not include PORTUG 301 which is the equivalent of PORTUG 101 and PORTUG 102.

2

PORTUG courses with the Advanced level designation are considered upper-level in the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop communication skills in Portuguese and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Portuguese.
2. Demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Portuguese, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
3. Demonstrate knowledge of Lusophone cultures across historical epochs, including awareness of the social, cultural, and linguistic diversity that characterizes the Portuguese-speaking world.
4. Demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
PORTUG 101		4 PORTUG 102	4
Communication A		3 Ethnic Studies	3
Quantitative Reasoning A		3 Biological Science Breadth	3
Social Science Breadth		3 Social Science Breadth	3
Elective		2 Elective	3
		<b>15</b>	<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
PORTUG 201		4 PORTUG 202	4
First Semester of Another Romance Language		4 Second Semester of Another Romance Language	4
Communication B <small>Literature in Translation 226, a Communication-B course, often meets with Portuguese 221.</small>		3-4 Physical Science Breadth	3
Elective		3 Social Science Breadth	3
INTER-LS 210		1	
		<b>15</b>	<b>14</b>

**Third Year**

Fall	Credits	Spring	Credits
PORTUG 225		3 PORTUG 226	3
Quantitative Reasoning B / Intermediate/ Advanced COMP SCI/ MATH/STAT <sup>if needed for B.S.</sup>		3 PORTUG 221	4
Social Science Breadth		3 Intermediate/Advanced COMP SCI/MATH/STAT if needed for B.S.	3
Electives		6 Electives	6
	<b>15</b>		<b>16</b>

**Fourth Year**

Fall	Credits	Spring	Credits
Portuguese Culture/ Civilization		3 Additional Portuguese Literature	3
Portuguese Elective		3 Portuguese Elective	3
Science Breadth		3 Science Breadth	3
Electives		6 Electives	5
	<b>15</b>		<b>14</b>

**Total Credits 120****ADVISING AND CAREERS****ADVISING****Karen Francis, Undergraduate Advisor**

karen.francis@wisc.edu  
608-265-3183  
1008 Van Hise Hall  
1220 Linden Drive  
Spanish & Portuguese Undergraduate Advising (<https://spanport.wisc.edu/undergrad-advising/>)

**CAREERS****International Directions Advisor**

1322 Van Hise Hall  
1220 Linden Drive  
<https://languages.wisc.edu/beyond/careers> (<https://languages.wisc.edu/beyond/careers/>)

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

Professors Alcalá-Galán, Beilin, Bilbija, Close, De Ferrari, Egea, Goldgel-Carballo, Hernández, Hutchinson, Medina, Podestá, Rao, Sanchez, Sapaga, Tejedo-Herrero

Associate Professors Ancos-García, Armstrong, Cerezo Paredes, Pellegrini, Stafford

Lecturer Mercado

Teaching Faculty Álvarez Oquendo, Fondow, Neumayer, Pujol, Rodríguez-Guridi

Editor Ríos Rodríguez

Department Administrator Deavers

Administrative Assistant Weeks

Financial Specialist Deavers

Graduate Program Manager Zimmer

Undergraduate Advisor Francis

**SPANISH STUDIES FOR BUSINESS STUDENTS, CERTIFICATE**

Did you know that by 2050 the United States could have more Spanish speakers than any other country (<http://qz.com/441174/by-2050-united-states-will-have-more-spanish-speakers-than-any-other-country/>)?

Spanish continues to gain ground as a widely spoken, national and international language, making the ability to communicate effectively in both written and spoken Spanish an invaluable intellectual, social, cultural, and professional resource. Spanish is the official or co-official language of 21 countries, and with more than 400 million speakers worldwide

(projected increase to about 530 million by 2050), it is the third most widely spoken language on the planet after Mandarin and English.

## HOW TO GET IN

**Students must earn admission to the School of Business to be eligible for the Certificate in Spanish Studies for Business Students. The certificate can be declared in consultation with the Spanish undergraduate advisor.**

**Students declared in the Certificate in Spanish Studies for Business Students are not eligible to declare the Spanish major.**

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

Code	Title	Credits
SPANISH/ INTL BUS 329	Spanish for Business	3
SPANISH 359	Spanish Business Area Studies	3
Select one course from the following:		3
SPANISH 361	Spanish Civilization	
SPANISH 363	Spanish American Civilization	
SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture	
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World	
SPANISH 468	Topics in Hispanic Culture	
SPANISH/ CHICLA 469	Topics in Latinx Culture	
SPANISH 472	Hispanic Screen Studies	
SPANISH 476	Study Abroad in Hispanic Cultures	
SPANISH 477	Latin American Rock Cultures	
SPANISH/ CHICLA 478	Border and Race Studies in Latin America	
SPANISH 480	Topics in Latin American Performance/Visual Studies	
SPANISH 490	Race, Religion and Ethnicity in the Age of Empire	
Select additional credits from SPANISH 300-499		6
<b>Total Credits</b>		<b>15</b>

### SPANISH COURSES 300-499

Code	Title	Credits
SPANISH 311	Advanced Language Practice	3
SPANISH 319	Topics in Spanish Language Practice	1-3
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 325	Advanced Conversation	3

SPANISH 326	Survey of Spanish American Literature	3
SPANISH 327	Introduction to Spanish Linguistics	3
SPANISH 331	Spanish Applied Linguistics	3
SPANISH/ MEDIEVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SPANISH 417	Literatura del Siglo de Oro	3-4
SPANISH/ FRENCH/ITALIAN/ PORTUG 429	Introduction to the Romance Languages	3
SPANISH 435	Cervantes	3
SPANISH 446	Topics in Spanish Linguistics	3
SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH 460	Literatura Hispanoamericana	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 466	Topics in Spanish American Literature	1
SPANISH/ CHICLA 467	US Latino Literature	3
SPANISH 468	Topics in Hispanic Culture	3
SPANISH/ CHICLA 469	Topics in Latinx Culture	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SPANISH 472	Hispanic Screen Studies	3
SPANISH 473	Study Abroad in Spanish Language Practice	1-4
SPANISH 474	Study Abroad in Spanish Linguistics	1-4
SPANISH 475	Study Abroad in Hispanic Literatures	1-4
SPANISH 476	Study Abroad in Hispanic Cultures	1-4

### RESIDENCE AND QUALITY OF WORK

- Minimum 3.000 GPA in all Certificate courses
- 8 SPANISH credits in residence
- 6 SPANISH credits, taken at UW-Madison

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Develop communication skills in Spanish; integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy; and practice pragmatic, linguistic and stylistic norms in a formal, professional register of standard Spanish in a variety of written and oral assignments.

2. Acquire specialized vocabulary related to business and commerce; analyze authentic informational, financial and marketing materials in Spanish; and incorporate the newly-acquired vocabulary and business-related knowledge into their speech and writing.
3. Demonstrate knowledge of Hispanic cultures, including awareness of the social, cultural, and linguistic diversity that characterizes the Spanish-speaking world, as well as familiarity with basic methods of literary, cultural and/or linguistic analysis.

## ADVISING AND CAREERS

### ADVISING

#### Karen Francis, Undergraduate Advisor

karen.francis@wisc.edu  
608-265-3183  
1008 Van Hise Hall  
1220 Linden Drive  
Spanish & Portuguese Undergraduate Advising (<https://spanport.wisc.edu/undergrad-advising/>)

### CAREERS

myBiz Careers and Internships (<https://wsb.wisc.edu/programs-degrees/undergraduate-bba/careers/>)

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

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Associate Professors Ancos-García, Armstrong, Cerezo Paredes, Pellegrini, Stafford

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Teaching Faculty Álvarez Oquendo, Fondow, Neumayer, Pujol, Rodríguez-Guridi

Editor Ríos Rodríguez

Department Administrator Deavers

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Undergraduate Advisor Francis

## SPANISH, B.A.

Did you know that by 2050 the United States could have more Spanish speakers than any other country (<http://qz.com/441174/by-2050-united-states-will-have-more-spanish-speakers-than-any-other-country/>)?

Spanish continues to gain ground as a widely spoken, national and international language, making the ability to communicate effectively in both written and spoken Spanish an invaluable intellectual, social, cultural, and professional resource. Spanish is the official or co-official language of 21 countries, and with more than 400 million speakers worldwide (projected increase to about 530 million by 2050), it is the third most widely spoken language on the planet after Mandarin and English.

### What can you do with a Spanish major?

The following are just a few of the many career paths for which proficiency in spoken and written Spanish can be a valuable asset:

- Bilingual and second language education
- Medical, legal, and business professions
- Journalism
- Travel industry
- Translation
- Interpretation
- Non-governmental/nonprofit work
- Library science
- Foreign service

## HOW TO GET IN

Students may declare at any time in consultation with the Spanish undergraduate advisor.

**Students declared in the Spanish major are not eligible to declare the Certificate in Spanish Studies for Business Students.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- Foreign Language
- Complete the fourth unit of a foreign language; OR
  - Complete the third unit of a foreign language and the second unit of an additional foreign language.

- L&S Breadth
- 12 credits of Humanities, which must include 6 credits of literature; and
  - 12 credits of Social Science; and
  - 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Introductory Courses (complete all):</b>		
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
SPANISH 225	Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish	3
SPANISH 311	Advanced Language Practice	3
<b>Survey Literature (complete one):</b>		
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 326	Survey of Spanish American Literature	
<b>Linguistics (complete one):</b>		
SPANISH 320	Spanish Phonetics	3
SPANISH 321	The Structure of Modern Spanish	
SPANISH 327	Introduction to Spanish Linguistics	
SPANISH 331	Spanish Applied Linguistics	
SPANISH 420	Advanced Spanish Phonetics	
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages	

SPANISH 430	Spanish in the United States
SPANISH 446	Topics in Spanish Linguistics
SPANISH 474	Study Abroad in Spanish Linguistics
<b>Culture/Civilization 3</b>	
SPANISH 361	Spanish Civilization
SPANISH 363	Spanish American Civilization
SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World
SPANISH 468	Topics in Hispanic Culture
SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 472	Hispanic Screen Studies
SPANISH 476	Study Abroad in Hispanic Cultures
SPANISH 477	Latin American Rock Cultures
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
SPANISH 480	Topics in Latin American Performance/Visual Studies
SPANISH 490	Race, Religion and Ethnicity in the Age of Empire

**Additional Culture/Civilization or Targeted Language Skills 3**

*Targeted Language Skills courses:*

SPANISH 317	Spanish for Nursing
SPANISH 318	Spanish for Pharmacy
SPANISH 319	Topics in Spanish Language Practice
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing
SPANISH 325	Advanced Conversation
SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 359	Spanish Business Area Studies
SPANISH 473	Study Abroad in Spanish Language Practice

**Electives to reach 36 credits in the major, chosen from: 12**

SPANISH courses numbered 400-699

*One (and only one) SPANISH course numbered 400-699 may be replaced by one (and only one) of the following three courses:*

LITTRANS 245	Topics in Spanish American Literature in Translation
LITTRANS 252	Spanish Literary Masterpieces in Translation
PORTUG 301	Intensive Portuguese

**Total Credits 36**

## FACULTY ENGAGEMENT

At least 6 credits of SPANISH at or above the 400-level must be taken while physically on the UW-Madison campus.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in SPANISH and all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>1</sup>
- 15 credits in SPANISH, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Spanish undergraduate advisor.

## HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all SPANISH courses 300 level and higher
- Complete the following coursework, taken for Honors, with individual grades of B or better:
  - 6 credits, SPANISH 327 to SPANISH 680
  - 3 credits, SPANISH 300 to SPANISH 680
  - A two-semester Senior Honors Thesis in SPANISH 681 and SPANISH 682 for at least 6 credits.<sup>2</sup>

## FOOTNOTES

1

Courses numbered above SPANISH 311 Advanced Language Practice are considered upper-level in the major.

2

In certain circumstances (particularly when the student is an Honors candidate in two or more departments), 6 credits in literature, linguistics, or cultural studies at the 500 or 600 level, excluding SPANISH 681, SPANISH 682, SPANISH 691, SPANISH 692, and SPANISH 699, may be substituted for the Honors Thesis, upon recommendation by the Spanish undergraduate advisor.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop communication skills in Spanish and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Spanish.
2. Demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Spanish, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
3. Demonstrate knowledge of Hispanic cultures across historical epochs, including awareness of the social, cultural, and linguistic diversity that characterizes the Spanish-speaking world.
4. Demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
SPANISH 203		4 SPANISH 204	4
Communication A	3	Quantatative Reasoning A or Intermediate/Advanced COMP SCI/MATH/STAT (if B.S.)	3
Social Science Breadth	3	Science Breadth	3
Electives	5	Electives	5
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
SPANISH 226		3 SPANISH 223	3
SPANISH 225	3	SPANISH 224	3
Communication B <sup>Do not take in same semester as SPANISH 311.</sup>	3	Ethnic Studies	3
Physical Science Breadth	3	Social Science Breadth	3

Elective	3	Elective	3
	<b>15</b>		<b>15</b>

#### Third Year

Fall	Credits	Spring	Credits
SPANISH 311 <sup>Do not take in same semester as Communication B.</sup>		3 Spanish Survey Literature course	3
Advanced Spanish Linguistics course	3	Advanced Spanish Culture/Civilization course	3
Quantatative Reasoning B or Intermediate/Advanced COMP SCI/MATH/STAT (if B.S.)	3	Biological Science Breadth	3
Social Science Breadth	3	Electives	6
Elective	3		
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Advanced Spanish Culture/Civilization course or Optional Targeted Language Skills course	3	400 level Spanish Elective	3
400 level Spanish Elective	3	400 level Spanish Elective	3
400 level Spanish Elective	3	Social Science Breadth	3
Science Breadth	3	Electives	6
Elective	3		
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

#### Karen Francis, Undergraduate Advisor

karen.francis@wisc.edu  
608-265-3183  
1008 Van Hise Hall  
1220 Linden Drive  
Spanish & Portuguese Undergraduate Advising (<https://spanport.wisc.edu/undergrad-advising/>)

### CAREERS

#### International Directions Advisor

1322 Van Hise Hall  
1220 Linden Drive  
<https://languages.wisc.edu/beyond/careers> (<https://languages.wisc.edu/beyond/careers/>)

### L&S CAREER RESOURCES

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
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- Medical, legal, and business professions
- Journalism
- Travel industry
- Translation
- Interpretation
- Non-governmental/nonprofit work
- Library science
- Foreign service

## HOW TO GET IN

Students may declare at any time in consultation with the Spanish undergraduate advisor.

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  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

major requirements. They do not need to complete the L&S Degree Requirements above.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:  
 • 12 credits of Humanities, which must include at least 6 credits of Literature; and  
 • 12 credits of Social Science; and  
 • 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:  
 • 30 credits in residence, overall, and  
 • 30 credits in residence after the 86th credit.

**Quality of Work**  
 • 2.000 in all coursework at UW–Madison  
 • 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Introductory Courses (complete all):</b>		
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
SPANISH 225	Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish	3
SPANISH 311	Advanced Language Practice	3
<b>Survey Literature (complete one):</b> <b>3</b>		
SPANISH 322	Survey of Early Hispanic Literature	
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 326	Survey of Spanish American Literature	
<b>Linguistics (complete one):</b> <b>3</b>		
SPANISH 320	Spanish Phonetics	
SPANISH 321	The Structure of Modern Spanish	
SPANISH 327	Introduction to Spanish Linguistics	
SPANISH 331	Spanish Applied Linguistics	
SPANISH 420	Advanced Spanish Phonetics	
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages	
SPANISH 430	Spanish in the United States	
SPANISH 446	Topics in Spanish Linguistics	
SPANISH 474	Study Abroad in Spanish Linguistics	
<b>Culture/Civilization</b> <b>3</b>		
SPANISH 361	Spanish Civilization	
SPANISH 363	Spanish American Civilization	
SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture	
SPANISH/ ENVIR ST 445	Culture and the Environment in the Luso-Hispanic World	
SPANISH 468	Topics in Hispanic Culture	
SPANISH/ CHICLA 469	Topics in Latinx Culture	
SPANISH 472	Hispanic Screen Studies	
SPANISH 476	Study Abroad in Hispanic Cultures	
SPANISH 477	Latin American Rock Cultures	
SPANISH/ CHICLA 478	Border and Race Studies in Latin America	
SPANISH 480	Topics in Latin American Performance/Visual Studies	
SPANISH 490	Race, Religion and Ethnicity in the Age of Empire	
<b>Additional Culture/Civilization or Targeted Language Skills</b> <b>3</b>		
<i>Targeted Language Skills courses:</i>		
SPANISH 317	Spanish for Nursing	

SPANISH 318	Spanish for Pharmacy
SPANISH 319	Topics in Spanish Language Practice
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing
SPANISH 325	Advanced Conversation
SPANISH/ INTL BUS 329	Spanish for Business
SPANISH 359	Spanish Business Area Studies
SPANISH 473	Study Abroad in Spanish Language Practice

**Electives to reach 36 credits in the major, chosen from:** **12**

SPANISH courses numbered 400–699	
<i>One (and only one) SPANISH course numbered 400–699 may be replaced by one (and only one) of the following three courses:</i>	
LITTRANS 245	Topics in Spanish American Literature in Translation
LITTRANS 252	Spanish Literary Masterpieces in Translation
PORTUG 301	Intensive Portuguese

**Total Credits** **36**

## FACULTY ENGAGEMENT

At least 6 credits of SPANISH at or above the 400-level must be taken while physically on the UW-Madison campus.

## RESIDENCE AND QUALITY OF WORK

- 2.000 GPA in SPANISH and all major courses
- 2.000 GPA on at least 15 credits of upper-level work in the major, taken in residence<sup>1</sup>
- 15 credits in SPANISH, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Major in consultation with the Spanish undergraduate advisor.

### HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.500 GPA for all SPANISH courses 300 level and higher
- Complete the following coursework, taken for Honors, with individual grades of B or better:
  - 6 credits, SPANISH 327 to SPANISH 680
  - 3 credits, SPANISH 300 to SPANISH 680
  - A two-semester Senior Honors Thesis in SPANISH 681 and SPANISH 682 for at least 6 credits.<sup>2</sup>

## FOOTNOTES

1

Courses numbered above SPANISH 311 Advanced Language Practice are considered upper-level in the major.

2

In certain circumstances (particularly when the student is an Honors candidate in two or more departments), 6 credits in literature, linguistics, or cultural studies at the 500 or 600 level, excluding SPANISH 681, SPANISH 682, SPANISH 691, SPANISH 692, and SPANISH 699, may be substituted for the Honors Thesis, upon recommendation by the Spanish undergraduate advisor.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Develop communication skills in Spanish and integrate these skills to exchange and assess ideas effectively and with level-appropriate accuracy in written and spoken Spanish.
2. Demonstrate understanding of linguistic, pragmatic, sociolinguistic, and stylistic features of written and spoken Spanish, understand how they influence meaning, and apply these features in level-appropriate ways in writing and speech.
3. Demonstrate knowledge of Hispanic cultures across historical epochs, including awareness of the social, cultural, and linguistic diversity that characterizes the Spanish-speaking world.
4. Demonstrate familiarity with and apply basic methods of literary and/or linguistic analysis, which for literary analysis includes interpretation of written texts and other forms of artistic/cultural creation, both in and of themselves and in the context of the particular social, cultural, and historical milieus in which they were created.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to

accommodate these experiences. Students will likely revise their own four-year plan several times during college.

### First Year

Fall	Credits	Spring	Credits
SPANISH 203		4 SPANISH 204	4
Communication A	3	Quantitative Reasoning A or Intermediate/Advanced COMP SCI/MATH/STAT (if B.S.)	3
Social Science Breadth	3	Science Breadth	3
Electives	5	Electives	5
<b>15</b>		<b>15</b>	

### Second Year

Fall	Credits	Spring	Credits
SPANISH 226		3 SPANISH 223	3
SPANISH 225	3	SPANISH 224	3
Communication B <sup>Do not take in same semester as SPANISH 311.</sup>	3	Ethnic Studies	3
Physical Science Breadth	3	Social Science Breadth	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

### Third Year

Fall	Credits	Spring	Credits
SPANISH 311 <sup>Do not take in same semester as Communication B.</sup>	3	Spanish Survey Literature course	3
Advanced Spanish Linguistics course	3	Advanced Spanish Culture/Civilization course	3
Quantitative Reasoning B or Intermediate/Advanced COMP SCI/MATH/STAT (if B.S.)	3	Biological Science Breadth	3
Social Science Breadth	3	Electives	6
Elective	3		
<b>15</b>		<b>15</b>	

### Fourth Year

Fall	Credits	Spring	Credits
Advanced Spanish Culture/Civilization course or Optional Targeted Language Skills course	3	400 level Spanish Elective	3
400 level Spanish Elective	3	400 level Spanish Elective	3
400 level Spanish Elective	3	Social Science Breadth	3
Science Breadth	3	Electives	6
Elective	3		
<b>15</b>		<b>15</b>	

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

#### Karen Francis, Undergraduate Advisor

karen.francis@wisc.edu

608-265-3183

1008 Van Hise Hall

1220 Linden Drive

Spanish & Portuguese Undergraduate Advising (<https://spanport.wisc.edu/undergrad-advising/>)

### CAREERS

#### International Directions Advisor

1322 Van Hise Hall

1220 Linden Drive

<https://languages.wisc.edu/beyond/careers> (<https://languages.wisc.edu/beyond/careers/>)

### L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

Professors Alcalá-Galán, Beilin, Bilbija, Close, De Ferrari, Egea, Goldgel-Carballo, Hernández, Hutchinson, Medina, Podestá, Rao, Sanchez, Sapega, Tejedo-Herrero

Associate Professors Ancos-García, Armstrong, Cerezo Paredes, Pellegrini, Stafford

Lecturer Mercado

Teaching Faculty Álvarez Oquendo, Fondow, Neumayer, Pujol, Rodríguez-Guridi

Editor Ríos Rodríguez

Department Administrator Deavers

Administrative Assistant Weeks

Financial Specialist Deavers

Graduate Program Manager Zimmer

Undergraduate Advisor Francis

- Sameer Deshpande, Assistant Professor, Statistics
- Nicolas Garcia Trillos, Assistant Professor, Statistics
- Yinqiu He, Assistant Professor, Statistics
- Hyunseung Kang, Assistant Professor, Statistics
- Sunduz Keles, Professor, Statistics & Biostatistics and Medical Informatics
- Bret Larget, Professor Statistics
- Keith Levin, Assistant Professor, Statistics
- Wi-Yin Loh, Professor, Statistics
- Michael Newton, Professor, Statistics & Biostatistics and Medical Informatics
- Vivak Patel, Assistant Professor, Statistics
- Alejandra Quintos, Assistant Professor, Statistics
- Sebastian Raschka, Assistant Professor, Statistics
- Garvesh Raskutti, Associate Professor, Statistics
- Karl Rohe, Professor, Statistics
- Kris Sankaran, Assistant Professor, Statistics
- Jun Shao, Professor, Statistics
- Miaoyan Wang, Assistant Professor, Statistics
- Yazhen Wang, Chair and Professor, Statistics
- Brian Yandell, Professor, Statistics
- Chunming Zhang, Professor, Statistics
- Zhengjun Zhang, Professor, Statistics
- Yiqiao Zhong, Assistant Professor, Statistics
- Jun Zhu, Professor, Statistics

## STATISTICS

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators' efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student's learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

## DEGREES/MAJORS/CERTIFICATES

- Data Science, B.A. (p. 1420)
- Data Science, B.S. (p. 1425)
- Data Science, Certificate (p. 1430)
- Statistics, B.A. (p. 1432)
- Statistics, B.S. (p. 1437)
- Statistics, Certificate (p. 1442)

## PEOPLE

A full listing of the Statistics faculty, including affiliated faculty and links to webpages, can be found on the departmental website (<https://stat.wisc.edu/people-main-faculty/>).

Faculty:

- Cecile Ane, Professor Statistics and Botany
- Joshua Cape, Assistant Professor, Statistics
- Peter Chien, Professor Statistics
- Jessi Cisewski-Kehe, Assistant Professor, Statistics

## DATA SCIENCE, B.A.

Students in the Data Science major will be able to apply computational, mathematical, and statistical thinking to data-rich problems in a wide variety of fields in a responsible and ethical manner. This includes the ability to manage, process, model, gain meaning and knowledge, and present data. Data Science is one of the fastest growing career sectors in Wisconsin and across the nation.

By its very nature, the field of data science is one that teaches novel and cutting-edge ways to engage in the "continual sifting and winnowing by which alone the truth can be found."

## HOW TO GET IN

To declare the data science major, student should meet with a data science major advisor prior to attaining senior standing (86 credits).

Students must have a 2.000 GPA on coursework counting in the major, and a 2.000 GPA on any upper-level work in the major completed prior to declaration. No specific coursework must be completed to declare.

Please see the Data Science major page (<https://stat.wisc.edu/undergraduate-data-science-studies/>) on the Department of Statistics website for information on how to declare the major and meet with advisors.

Students declared in the Data Science certificate may not be declared in the Data Science major at the same time. Students who do wish to

declare this major must first cancel their declaration in the Data Science certificate.

Students declared in the Statistics certificate may not be declared in the Data Science major at the same time. Students who do wish to declare this major must first cancel their declaration in the Statistics certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

#### BACHELOR OF ARTS DEGREE REQUIREMENTS

**Mathematics** Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.

- |                  |  |
|------------------|--|
| Foreign Language | <ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul> |
|------------------|--|

- |             |  |
|-------------|--|
| L&S Breadth | <ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul> |
|-------------|--|

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2,000 in all coursework at UW–Madison</li> <li>• 2,000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>

### NON–L&S STUDENTS PURSUING AN L&S MAJOR

Non–L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

### REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Foundational Math Courses</b>		
MATH 221 or MATH 217 or MATH 275	Calculus and Analytic Geometry 1 Calculus with Algebra and Trigonometry II Topics in Calculus I	5
MATH 222 or MATH 276	Calculus and Analytic Geometry 2 Topics in Calculus II	4
<b>Total Credits</b>		<b>9</b>

Code	Title	Credits
<b>Foundational Data Science Courses</b>		
STAT 240	Data Science Modeling I	4
STAT 340	Data Science Modeling II	4
COMP SCI 220 or COMP SCI 300	Data Science Programming I Programming II	4
COMP SCI 320	Data Science Programming II	4
L I S 461	Data and Algorithms: Ethics and Policy	3-4
<b>Total Credits</b>		<b>19-20</b>

Code	Title	Credits
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**Electives**

Students must complete at least one course from each of the four following categories, plus additional electives to reach the minimum credits. Additional courses taken within each category (except for linear algebra) may count towards other electives.<sup>2</sup>

**Machine Learning** 3

Complete one of the following:

COMP SCI/E C E/ Matrix Methods in Machine Learning  
M E 532

COMP SCI/E C E/ Introduction to Artificial Neural  
M E 539 Networks

COMP SCI 540 Introduction to Artificial Intelligence

GEN BUS 656 Machine Learning for Business Analytics

I SY E 521 Machine Learning in Action for Industrial Engineers

MATH 535 Mathematical Methods in Data Science

STAT 451 Introduction to Machine Learning and Statistical Pattern Classification

STAT 453 Introduction to Deep Learning and Generative Models

**Advanced Computing** 3

Complete one of the following:

COMP SCI 400 Programming III

COMP SCI 412 Introduction to Numerical Methods

COMP SCI/ Introduction to Computational  
STAT 471 Statistics

COMP SCI/ Numerical Linear Algebra  
MATH 513

COMP SCI/ Numerical Analysis  
MATH 514

COMP SCI/E C E/ Introduction to Optimization  
I SY E 524

COMP SCI 544 Introduction to Big Data Systems

COMP SCI 564 Database Management Systems:  
Design and Implementation

COMP SCI/ Introduction to Bioinformatics  
B M I 576

GEOG 573 Advanced Geocomputing and Geospatial Big Data Analytics

GEOG 574 Geospatial Database Design and Development

**Statistical Modeling** 3

Complete one of the following:

ECON 400 Introduction to Applied Econometrics

ECON 410 Introductory Econometrics

ECON 460 Economic Forecasting

GEOG 579 GIS and Spatial Analysis

I SY E 575 Introduction to Quality Engineering

STAT/MATH 309 Introduction to Probability and Mathematical Statistics I<sup>2</sup>

or STAT 311 Introduction to Theory and Methods of Mathematical Statistics I

or MATH/ Introduction to the Theory of Probability  
STAT 431

STAT/MATH 310 Introduction to Probability and Mathematical Statistics II<sup>2</sup>

or STAT 312 Introduction to Theory and Methods of Mathematical Statistics II

STAT 349 Introduction to Time Series

STAT 351 Introductory Nonparametric Statistics

STAT 421 Applied Categorical Data Analysis

STAT/M E 424 Statistical Experimental Design

STAT 436 Statistical Data Visualization

STAT 443 Classification and Regression Trees

STAT 456 Applied Multivariate Analysis

STAT 461 Financial Statistics

MATH 531 Probability Theory

MATH/I SY E/ Introduction to Stochastic  
OTM/STAT 632 Processes

MATH 635 An Introduction to Brownian Motion and Stochastic Calculus

**Linear Algebra** 3

Complete one from the following. Only one course from the linear algebra list can be used towards the major:<sup>2</sup>

MATH 320 Linear Algebra and Differential Equations

MATH 340 Elementary Matrix and Linear Algebra

MATH 341 Linear Algebra

MATH 375 Topics in Multi-Variable Calculus and Linear Algebra

**Other Electives** 6

For additional electives students may complete courses from the list below or additional courses from the required categories above:<sup>2</sup>

COMP SCI/I SY E/ Introduction to Combinatorial  
MATH 425 Optimization

COMP SCI/I SY E/ Linear Optimization  
MATH/STAT 525

COMP SCI/ Image Processing  
E C E 533

COMP SCI 559 Computer Graphics

COMP SCI/ Medical Image Analysis  
B M I 567

COMP SCI 577 Introduction to Algorithms

E C E 203 Signals, Information, and Computation

ECON 315 Data Visualization for Economists

ECON 570 Fundamentals of Data Analytics for Economists

ECON 695 Topics in Economic Data Analysis

GEOG 378 Introduction to Geocomputing

GEOG 572 Graphic Design in Cartography

GEOG 575	Interactive Cartography & Geovisualization
I SY E 323	Operations Research-Deterministic Modeling
I SY E 412	Fundamentals of Industrial Data Analytics
I SY E/M E 512	Inspection, Quality Control and Reliability
I SY E 612	Information Sensing and Analysis for Manufacturing Processes
INFO SYS 322	Introduction to Databases
L I S 407	Data Storytelling with Visualization
L I S 464	Applied Database Design
L I S 501	Introduction to Text Mining
SOC 351	Introduction to Survey Methods for Social Research
SOC/ C&E SOC 693	Practicum in Analysis and Research
STAT 405	Data Science Computing Project
STAT 433	Data Science with R

**Total Credits** **18**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA in all upper level work in the major<sup>1</sup>
- 15 credits in the major, taken on the UW-Madison campus

## FOOTNOTES

1

Upper-level in the major includes L I S 461 and all courses listed in the Data Science Electives (i.e. Machine Learning, Advanced Computing, Statistical Modeling, Linear Algebra, and Other Electives).

2

Students are only allowed to count one course from each of **probability** (STAT/MATH 309, STAT 311, or STAT/MATH 431), **inference** (STAT/MATH 310 or STAT 312), and **linear algebra** (MATH 320, MATH 340, MATH 341, or MATH 375) towards the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate foundational concepts and tools from mathematics, computer science, and statistics to solve data science problems.
2. Demonstrate competencies with tools and processes necessary for data management and reproducibility.
3. Produce meaning from data employing modeling strategies.
4. Demonstrate critical thinking related to data science concepts and methods.
5. Conduct data science activities aware of and according to policy, privacy, security and ethical considerations.
6. Demonstrate oral, written, and visual communication skills related to data science.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
COMP SCI 220	4	COMP SCI 320	4
Communication A	3	MATH 221	5
Biological Science Breadth	3	Ethnic Studies	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
<b>14</b>		<b>16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
MATH 222	4	STAT 340	4
STAT 240	4	Linear Algebra course	3
Literature Breadth	3	Humanities Breadth	3
Physical Science Breadth	3	Literature Breadth	3
INTER-LS 210	1	Social Science Breadth	3
<b>15</b>		<b>16</b>	

#### Junior

Fall	Credits	Spring	Credits
L I S 461 (enroll in Communication B section)	3-4	Statistical Modeling course	3

Machine Learning course	3	Physical Science Breadth	3
Biological Science Breadth	3	Social Science Breadth	3
Social Science Breadth	3	Electives	6
Elective	3		
	<b>16</b>		<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
Advanced Computing course	3	Data Science elective	3
Data Science elective	3	Electives	10
Social Science Breadth	3		
Electives	6		
	<b>15</b>		<b>13</b>

**Total Credits 120**

## THREE-YEAR PLAN

**SAMPLE THREE-YEAR PLAN**

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it –along with their DARS report, the Degree Planner, and Course Search & Enroll tools – to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

**DEPARTMENTAL EXPECTATIONS**

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- MATH 221 Calculus and Analytic Geometry 1
- MATH 222 Calculus and Analytic Geometry 2
- 3-4 units of foreign language

**First Year**

Fall	Credits	Spring	Credits
STAT 240	4	STAT 340	4
COMP SCI 220	4	COMP SCI 320	4
Communications A complete during first year	3	Ethnics Studies <sup>complete</sup> within first 60 credits	3
Social Science Breadth	3	Humanities Breadth	3
	<b>14</b>		<b>14</b>

**Second Year**

Fall	Credits	Spring	Credits
L I S 461 (meets Humanities Breadth, 4cr section meets Communication B)	3	3-4 Machine Learning Course	3
Linear Algebra Course	3	Statistical Modeling Course	3
Biological Science Breadth	3	Literature Breadth	3
Social Science Breadth	3	Physical Science Breadth	3
Elective	3	3-4 INTER-LS 210	1
		Elective	3
	<b>16</b>		<b>16</b>

**Third Year**

Fall	Credits	Spring	Credits
Advanced Computing Course	3	Data Science Elective	3
Data Science Elective	3	Literature Breath	3
Science Breadth	3	Science Breadth	3
Social Science Breadth	6	Electives	6
	<b>15</b>		<b>15</b>

**Total Credits 90**

## ADVISING AND CAREERS

**LOOKING FOR DATA SCIENCE ADVISING?**

Information on group declaration sessions, individual advising appointments, drop-in advising, and contact information for advisors is available on our website (<https://stat.wisc.edu/undergraduate-data-science-studies/>).

**WHAT DO DATA SCIENTISTS DO?**

Data Scientists are trained to manage, process, model, gain meaning and knowledge, and present data. These skills can be employed in a wide variety of different sectors of employment. Examples of interests of our students include finance, banking, sports analytics, marketing, retail, humanities, psychology, biosciences, healthcare, and consulting, just to name a few. Students are encouraged to combine data science with majors, certificates, and courses from differing areas to best be able to apply their data science in the area of their choosing.

Data science is one of the fastest growing area of jobs in the U.S. and in Wisconsin. All of the major job search engines regularly list a multitude of positions, for example, in 2022 Data Scientist was the #3 job on the web site Glassdoor with over 10,000 jobs, Indeed.com had over 20,000 jobs for data science, and thousands of positions in multiple data oriented categories can be found on Monster.com.

Additionally, the Occupational Outlook Handbook (OOH) from the Bureau of Labor Statistics (<https://www.bls.gov/ooh/math/data-scientists.htm>) shows the job growth outlook from 2021-31 for Data Scientists to be 36% (much faster than average).

Some students may want to continue to develop additional advanced data science skills through graduate education.



## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
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- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
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- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### ADVISING STAFF

Information regarding the Data Science advisors and how to make appointment can be found on the program page (<https://stat.wisc.edu/undergraduate-data-science-studies/>).

### DATA SCIENCE MAJOR PROGRAM COMMITTEE

- Tyler Caraza-Harter (Computer Sciences)
- Michael Ferris (Computer Sciences)
- B. Ian Hutchins (iSchool)
- Bret Larget, Program Director (Statistics), committee chair
- Sebastien Roch (Mathematics)
- Sara Rodock (Statistics), advising representative

## RESOURCES AND SCHOLARSHIPS

Helpful resources can be found at scholarships (<https://financialaid.wisc.edu/types-of-aid/scholarships/>) and Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>). Additional information specific to Data Science students can be found on our major webpage (<https://stat.wisc.edu/undergraduate-data-science-studies/>)

and opportunities are regularly sent to declared students via our weekly newsletter.

## DATA SCIENCE, B.S.

Students in the Data Science major will be able to apply computational, mathematical, and statistical thinking to data-rich problems in a wide variety of fields in a responsible and ethical manner. This includes the ability to manage, process, model, gain meaning and knowledge, and present data. Data Science is one of the fastest growing career sectors in Wisconsin and across the nation.

By its very nature, the field of data science is one that teaches novel and cutting-edge ways to engage in the "continual sifting and winnowing by which alone the truth can be found."

## HOW TO GET IN

To declare the data science major, student should meet with a data science major advisor prior to attaining senior standing (86 credits).

Students must have a 2.000 GPA on coursework counting in the major, and a 2.000 GPA on any upper-level work in the major completed prior to declaration. No specific coursework must be completed to declare.

Please see the Data Science major page (<https://stat.wisc.edu/undergraduate-data-science-studies/>) on the Department of Statistics website for information on how to declare the major and meet with advisors.

Students declared in the Data Science certificate may not be declared in the Data Science major at the same time. Students who do wish to declare this major must first cancel their declaration in the Data Science certificate.

Students declared in the Statistics certificate may not be declared in the Data Science major at the same time. Students who do wish to declare this major must first cancel their declaration in the Statistics certificate.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW-Madison
- 2.000 in Intermediate/Advanced level coursework at UW-Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR

Code	Title	Credits
<b>Foundational Math Courses</b>		
MATH 221	Calculus and Analytic Geometry 1	5
or MATH 217	Calculus with Algebra and Trigonometry II	
or MATH 275	Topics in Calculus I	
MATH 222	Calculus and Analytic Geometry 2	4
or MATH 276	Topics in Calculus II	
<b>Total Credits</b>		<b>9</b>

Code	Title	Credits
<b>Foundational Data Science Courses</b>		
STAT 240	Data Science Modeling I	4
STAT 340	Data Science Modeling II	4
COMP SCI 220	Data Science Programming I	4
or COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	4
L I S 461	Data and Algorithms: Ethics and Policy	3-4
<b>Total Credits</b>		<b>19-20</b>

Code	Title	Credits
<b>Electives</b>		

Students must complete at least one course from each of the four following categories, plus additional electives to reach the minimum credits. Additional courses taken within each category (except for linear algebra) may count towards other electives. <sup>2</sup>

*Machine Learning* 3

Complete one of the following:

COMP SCI/E C E/ Matrix Methods in Machine Learning  
M E 532

COMP SCI/E C E/ Introduction to Artificial Neural  
M E 539 Networks

COMP SCI 540 Introduction to Artificial Intelligence

GEN BUS 656 Machine Learning for Business Analytics

I SY E 521 Machine Learning in Action for Industrial Engineers

MATH 535 Mathematical Methods in Data Science

STAT 451 Introduction to Machine Learning and Statistical Pattern Classification

STAT 453 Introduction to Deep Learning and Generative Models

*Advanced Computing* 3

Complete one of the following:

COMP SCI 400 Programming III

COMP SCI 412 Introduction to Numerical Methods

COMP SCI/ Introduction to Computational  
STAT 471 Statistics

COMP SCI/ MATH 513	Numerical Linear Algebra
COMP SCI/ MATH 514	Numerical Analysis
COMP SCI/E C E/ I SY E 524	Introduction to Optimization
COMP SCI 544	Introduction to Big Data Systems
COMP SCI 564	Database Management Systems: Design and Implementation
COMP SCI/ B M I 576	Introduction to Bioinformatics
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics
GEOG 574	Geospatial Database Design and Development

*Statistical Modeling* 3

Complete one of the following:

ECON 400	Introduction to Applied Econometrics
ECON 410	Introductory Econometrics
ECON 460	Economic Forecasting
GEOG 579	GIS and Spatial Analysis
I SY E 575	Introduction to Quality Engineering
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I <sup>2</sup>
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I
or MATH/ STAT 431	Introduction to the Theory of Probability
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II <sup>2</sup>
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II
STAT 349	Introduction to Time Series
STAT 351	Introductory Nonparametric Statistics
STAT 421	Applied Categorical Data Analysis
STAT/M E 424	Statistical Experimental Design
STAT 436	Statistical Data Visualization
STAT 443	Classification and Regression Trees
STAT 456	Applied Multivariate Analysis
STAT 461	Financial Statistics
MATH 531	Probability Theory
MATH/I SY E/ OTM/STAT 632	Introduction to Stochastic Processes
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus

*Linear Algebra* 3

Complete one from the following. Only one course from the linear algebra list can be used towards the major:<sup>2</sup>

MATH 320	Linear Algebra and Differential Equations
MATH 340	Elementary Matrix and Linear Algebra
MATH 341	Linear Algebra

MATH 375	Topics in Multi-Variable Calculus and Linear Algebra
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*Other Electives* 6

For additional electives students may complete courses from the list below or additional courses from the required categories above:<sup>2</sup>

COMP SCI/I SY E/ MATH 425	Introduction to Combinatorial Optimization
COMP SCI/I SY E/ MATH/STAT 525	Linear Optimization
COMP SCI/ E C E 533	Image Processing
COMP SCI 559	Computer Graphics
COMP SCI/ B M I 567	Medical Image Analysis
COMP SCI 577	Introduction to Algorithms
E C E 203	Signals, Information, and Computation
ECON 315	Data Visualization for Economists
ECON 570	Fundamentals of Data Analytics for Economists
ECON 695	Topics in Economic Data Analysis
GEOG 378	Introduction to Geocomputing
GEOG 572	Graphic Design in Cartography
GEOG 575	Interactive Cartography & Geovisualization
I SY E 323	Operations Research-Deterministic Modeling
I SY E 412	Fundamentals of Industrial Data Analytics
I SY E/M E 512	Inspection, Quality Control and Reliability
I SY E 612	Information Sensing and Analysis for Manufacturing Processes
INFO SYS 322	Introduction to Databases
L I S 407	Data Storytelling with Visualization
L I S 464	Applied Database Design
L I S 501	Introduction to Text Mining
SOC 351	Introduction to Survey Methods for Social Research
SOC/ C&E SOC 693	Practicum in Analysis and Research
STAT 405	Data Science Computing Project
STAT 433	Data Science with R

**Total Credits** 18

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all major courses
- 2.000 GPA in all upper level work in the major<sup>1</sup>
- 15 credits in the major, taken on the UW-Madison campus

## FOOTNOTES

1

Upper-level in the major includes L I S 461 and all courses listed in the Data Science Electives (i.e. Machine Learning, Advanced Computing, Statistical Modeling, Linear Algebra, and Other Electives).

2

Students are only allowed to count one course from each of **probability** (STAT/MATH 309, STAT 311, or STAT/MATH 431), **inference** (STAT/MATH 310 or STAT 312), and **linear algebra** (MATH 320, MATH 340, MATH 341, or MATH 375) towards the major.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate foundational concepts and tools from mathematics, computer science, and statistics to solve data science problems.
2. Demonstrate competencies with tools and processes necessary for data management and reproducibility.
3. Produce meaning from data employing modeling strategies.
4. Demonstrate critical thinking related to data science concepts and methods.
5. Conduct data science activities aware of and according to policy, privacy, security and ethical considerations.
6. Demonstrate oral, written, and visual communication skills related to data science.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer

experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### Freshman

Fall	Credits	Spring	Credits
COMP SCI 220	4	COMP SCI 320	4
Communication A	3	MATH 221	5
Biological Science Breadth	3	Ethnic Studies	3
Foreign Language (if needed)	4	Foreign Language (if needed)	4
<b>14</b>		<b>16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
MATH 222	4	STAT 340	4
STAT 240	4	Linear Algebra course	3
Literature Breadth	3	Humanities Breadth	3
Physical Science Breadth	3	Literature Breadth	3
INTER-LS 210	1	Social Science Breadth	3
<b>15</b>		<b>16</b>	

#### Junior

Fall	Credits	Spring	Credits
L I S 461 (enroll in Communication B section)	3-4	Statistical Modeling course	3
Machine Learning course	3	Physical Science Breadth	3
Biological Science Breadth	3	Social Science Breadth	3
Social Science Breadth	3	Electives	6
Elective	3		
<b>16</b>		<b>15</b>	

#### Senior

Fall	Credits	Spring	Credits
Advanced Computing course	3	Data Science elective	3
Data Science elective	3	Electives	10
Social Science Breadth	3		
Electives	6		
<b>15</b>		<b>13</b>	

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-

graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

## DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

- MATH 221 Calculus and Analytic Geometry 1
- MATH 222 Calculus and Analytic Geometry 2
- 3-4 units of foreign language

### First Year

Fall	Credits	Spring	Credits
STAT 240		4 STAT 340	4
COMP SCI 220		4 COMP SCI 320	4
Communications A complete during first year		3 Ethnic Studies <sup>complete</sup> within first 60 credits	3
Social Science Breadth		3 Humanities Breadth	3
	<b>14</b>		<b>14</b>

### Second Year

Fall	Credits	Spring	Credits
L I S 461 (meets Humanities Breadth, 4cr section meets Communication B)		3-4 Machine Learning Course	3
Linear Algebra Course		3 Statistical Modeling Course	3
Biological Science Breadth		3 Literature Breadth	3
Social Science Breadth		3 Physical Science Breadth	3
Elective		3-4 INTER-LS 210	1
		Elective	3
	<b>16</b>		<b>16</b>

### Third Year

Fall	Credits	Spring	Credits
Advanced Computing Course		3 Data Science Elective	3
Data Science Elective		3 Literature Breath	3
Science Breadth		3 Science Breadth	3
Social Science Breadth		6 Electives	6
	<b>15</b>		<b>15</b>

**Total Credits 90**

## ADVISING AND CAREERS

### LOOKING FOR DATA SCIENCE ADVISING?

Information on group declaration sessions, individual advising appointments, drop-in advising, and contact information for advisors is available on our website (<https://stat.wisc.edu/undergraduate-data-science-studies/>).

## WHAT DO DATA SCIENTISTS DO?

Data Scientists are trained to manage, process, model, gain meaning and knowledge, and present data. These skills can be employed in a wide variety of different sectors of employment. Examples of interests of our students include finance, banking, sports analytics, marketing, retail, humanities, psychology, biosciences, healthcare, and consulting, just to name a few. Students are encouraged to combine data science with majors, certificates, and courses from differing areas to best be able to apply their data science in the area of their choosing.

Data science is one of the fastest growing area of jobs in the U.S. and in Wisconsin. All of the major job search engines regularly list a multitude of positions, for example, in 2022 Data Scientist was the #3 job on the web site Glassdoor with over 10,000 jobs, Indeed.com had over 20,000 jobs for data science, and thousands of positions in multiple data oriented categories can be found on Monster.com.

Additionally, the Occupational Outlook Handbook (OOH) from the Bureau of Labor Statistics (<https://www.bls.gov/ooh/math/data-scientists.htm>) shows the job growth outlook from 2021-31 for Data Scientists to be 36% (much faster than average).

Some students may want to continue to develop additional advanced data science skills through graduate education.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### ADVISING STAFF

Information regarding the Data Science advisors and how to make an appointment can be found on the program page (<https://stat.wisc.edu/undergraduate-data-science-studies/>).

### DATA SCIENCE MAJOR PROGRAM COMMITTEE

- Tyler Caraza-Harter (Computer Sciences)
- Michael Ferris (Computer Sciences)
- B. Ian Hutchins (iSchool)
- Bret Larget, Program Director (Statistics), committee chair
- Sebastien Roch (Mathematics)
- Sara Rodock (Statistics), advising representative

## RESOURCES AND SCHOLARSHIPS

Helpful resources can be found at scholarships (<https://financialaid.wisc.edu/types-of-aid/scholarships/>) and Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>). Additional information specific to Data Science students can be found on our major webpage (<https://stat.wisc.edu/undergraduate-data-science-studies/>) and opportunities are regularly sent to declared students via our weekly newsletter.

## DATA SCIENCE, CERTIFICATE

Students in the data science certificate will develop abilities such as data management, reproducibility, modeling strategies, and ethical considerations of data science to be paired with their knowledge gained from their major or domain area. The certificate is a great fit for students who like programming, want to learn data analysis, and seek to be high-end users of data science tools in domain areas. Data science is one of the fastest growing career sectors in Wisconsin and across the nation.

By its very nature, the field of data science is one that teaches novel and cutting-edge ways to engage in the “continual sifting and winnowing by which alone the truth can be found.”

## HOW TO GET IN

Students are eligible to declare the certificate at any point in their studies. They should declare it as early as possible to plan the required coursework. See the departmental website (<https://stat.wisc.edu/data-science-certificate/>) for information about how to declare.

Students declared in the Data Science major and Engineering Data Analytics Certificate are not eligible to declare the Data Science certificate.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE IN DATA SCIENCE

The certificate requires a minimum of 16 credits.

Code	Title	Credits
<b>Foundation Courses</b>		<b>10-12</b>
L I S 461	Data and Algorithms: Ethics and Policy	3-4
<i>Complete two courses from</i>		<i>7-8</i>
COMP SCI 220	Data Science Programming I <sup>1</sup>	
	or COMP SCI 32 Data Science Programming II	
STAT 240	Data Science Modeling I	
E C E 204	Data Science & Engineering	
<b>Elective Courses</b>		<b>6</b>
Complete a minimum of 6 credits of electives, including at least 3 credits from the Fundamental Electives list.		
<i>Fundamental Electives</i>		<i>3-6</i>
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 486	Principles of Physiology Laboratory	
COMP SCI 320	Data Science Programming II <sup>1</sup>	
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	
COMP SCI 544	Introduction to Big Data Systems	
COMP SCI/ B M I 576	Introduction to Bioinformatics	
ECON 315	Data Visualization for Economists	
ECON 400	Introduction to Applied Econometrics	
ECON 410	Introductory Econometrics	
ECON 460	Economic Forecasting	
ECON 570	Fundamentals of Data Analytics for Economists	
ECON 695	Topics in Economic Data Analysis	
ED PSYCH 551	Quantitative Ethnography	
FINANCE 310	Data Analytics for Finance	
GEOG 378	Introduction to Geocomputing	
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	
GEOG 574	Geospatial Database Design and Development	
GEOG 579	GIS and Spatial Analysis	
I SY E 412	Fundamentals of Industrial Data Analytics	
I SY E 521	Machine Learning in Action for Industrial Engineers	
MATH 535	Mathematical Methods in Data Science	
SOC 362	Statistics for Sociologists III	
STAT 340	Data Science Modeling II	

STAT 405	Data Science Computing Project
STAT 436	Statistical Data Visualization
STAT/ COMP SCI 471	Introduction to Computational Statistics
<i>Domain Electives</i> 0-3	
A A E/ECON 421	Economic Decision Analysis
BIOCHEM 570	Computational Modeling of Biological Systems
COMP SCI/E C E/ I SY E 524	Introduction to Optimization
GEN BUS 307	Business Analytics II
INFO SYS 322	Introduction to Databases
SOC 351	Introduction to Survey Methods for Social Research

## RESIDENCE AND QUALITY OF WORK

- Minimum 2.000 GPA on all certificate courses
- At least 9 credits must be taken in residence at UW-Madison

## FOOTNOTES

1

COMP SCI 320 may count toward either the Foundation Courses or Fundamental Electives requirement, but not both.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Apply tools and processes necessary for data management and reproducibility.
2. Produce meaning from data employing modeling strategies.
3. Learn best practices related to data science concepts and methods.
4. Articulate policy, privacy, security and ethical considerations in data science projects.

## ADVISING AND CAREERS

### LOOKING FOR DATA SCIENCE ADVISING?

Students who are interested in data science academic advising should check out the advising information on our website (<https://stat.wisc.edu/data-science-certificate/>) or send an email to [dscert@stat.wisc.edu](mailto:dscert@stat.wisc.edu).

### WHAT DO DATA SCIENTISTS DO?

Data Scientists are trained to manage, process, model, gain meaning and knowledge, and present data. These skills can be employed in a wide variety of different sectors of employment. Examples of interests of our students include finance, banking, sports analytics, marketing, retail, humanities, psychology, biosciences, healthcare, and consulting, just to name a few. Students are encouraged to combine data science with

majors, certificates, and courses from differing areas to best be able to apply their data science in the area of their choosing.

Data science is one of the fastest growing area of jobs in the U.S. and in Wisconsin. All of the major job search engines regularly list thousands of jobs, for example, in 2018 Data Scientist was the #1 job on the web site Glassdoor with over 25,000 jobs, Monster.com listed over 12,000 jobs in data science nationally, and Indeed.com had over 1,000 jobs for data analysts just in the state of Wisconsin.

Additionally, the Occupational Outlook Handbook (OOH) from the Bureau of Labor Statistics shows the job growth outlook from 2016-26 for Mathematicians and Statisticians to be 33% (much faster than average) and for Computer and Information Research Scientists to be 19% (much faster than average).

Some students may want to continue to develop additional advanced data science skills through graduate education.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students' lives (<https://successworks.wisc.edu/about/mission/>)

## PEOPLE

### ADVISING STAFF

Information regarding the Data Science advisors and how to make appointment can be found on the program page (<https://stat.wisc.edu/data-science-certificate/>).

## DATA SCIENCE MAJOR PROGRAM COMMITTEE

- Tyler Caraza-Harter (Computer Sciences)
- Michael Ferris (Computer Sciences)
- B. Ian Hutchins (iSchool)
- Bret Larget, Program Director (Statistics), committee chair
- Sebastien Roch (Mathematics)
- Sara Rodock (Statistics), advising representative

## STATISTICS, B.A.

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators' efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student's learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

## HOW TO GET IN

To declare the statistics major, students should schedule an appointment with a statistics major advisor prior to attaining senior standing (86 credits). Information regarding major declaration and how to schedule an appointment is available on the major webpage (<https://stat.wisc.edu/undergraduate-statistics-major/>).

Students must have a 2.000 GPA on coursework counting in the major, and a 2.000 GPA on any upper-level work in the major completed prior to declaration. No specific coursework must be completed to declare.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (B.A.)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

### BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics	Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative Reasoning B (QR-B) coursework.
Foreign Language	<ul style="list-style-type: none"> <li>• Complete the fourth unit of a foreign language; OR</li> <li>• Complete the third unit of a foreign language and the second unit of an additional foreign language.</li> </ul>
L&S Breadth	<ul style="list-style-type: none"> <li>• 12 credits of Humanities, which must include 6 credits of literature; and</li> <li>• 12 credits of Social Science; and</li> <li>• 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.</li> </ul>
Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced work	Complete at least 60 credits at the intermediate or advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW-Madison Experience	<ul style="list-style-type: none"> <li>• 30 credits in residence, overall; and</li> <li>• 30 credits in residence after the 86th credit.</li> </ul>
Quality of Work	<ul style="list-style-type: none"> <li>• 2.000 in all coursework at UW–Madison</li> <li>• 2.000 in Intermediate/Advanced level coursework at UW–Madison</li> </ul>



## NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS

Code	Title	Credits
<b>Calculus 1 (Complete one):</b>		<b>5-10</b>
MATH 221	Calculus and Analytic Geometry 1 <sup>1</sup>	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II <sup>1</sup>	
<b>Calculus 2 (Complete one):</b>		<b>4-5</b>
MATH 222	Calculus and Analytic Geometry 2 <sup>1</sup>	
<b>Calculus 3 (Complete one):</b>		<b>4-5</b>
MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
<b>Linear Algebra (Complete one):</b>		<b>3-5</b>
MATH 340	Elementary Matrix and Linear Algebra	
MATH 320	Linear Algebra and Differential Equations	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<b>Total Credits</b>		<b>16-25</b>

## COMPUTER PROGRAMMING

Code	Title	Credits
<b>Complete one of:</b>		<b>3-4</b>
COMP SCI 200	Programming I	
COMP SCI 220	Data Science Programming I	
COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	
COMP SCI 400	Programming III	
COMP SCI 412	Introduction to Numerical Methods	
<b>Total Credits</b>		<b>3-4</b>

## STATISTICS

Code	Title	Credits
<b>Introductory Statistics &amp; Basic Statistical Language:</b>		<b>4-5</b>
STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 301	Introduction to Statistical Methods	
or STAT 324	Introductory Applied Statistics for Engineers	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or STAT 240	Data Science Modeling I	

STAT 303	R for Statistics I	
<b>Statistical Models:</b>		<b>6-7</b>
STAT 333	Applied Regression Analysis	
or STAT 340	Data Science Modeling II	
STAT/M E 424	Statistical Experimental Design	
<b>Probability (Complete one):</b>		<b>3</b>
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/MATH 431	Introduction to the Theory of Probability	
MATH 531	Probability Theory	
<b>Inference:</b>		<b>3</b>
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
<b>Electives:</b>		<b>15</b>
Students will complete a total of 15 credits of electives with a maximum of 6 credits from the domain electives		
<i>Core Electives</i>		<i>9-15</i>
STAT 304	R for Statistics II	
STAT 305	R for Statistics III	
STAT 327	Learning a Statistical Language	
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 360	Topics in Statistics Study Abroad	
STAT 405	Data Science Computing Project	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT 433	Data Science with R	
STAT 443	Classification and Regression Trees	
STAT 436	Statistical Data Visualization	
STAT 451	Introduction to Machine Learning and Statistical Pattern Classification	
STAT 453	Introduction to Deep Learning and Generative Models	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/COMP SCI 471	Introduction to Computational Statistics	
STAT 479	Special Topics in Statistics <sup>2</sup>	
STAT 575	Statistical Methods for Spatial Data	
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT/B M I 642	Statistical Methods for Epidemiology	
STAT 679	Special Topics in Statistics <sup>2</sup>	
<i>Domain Electives</i>		<i>0-6</i>
ACT SCI 653	Loss Models II	
ACT SCI 654	Regression and Time Series for Actuaries	

COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning
ECON 570	Fundamentals of Data Analytics for Economists
GEN BUS 656	Machine Learning for Business Analytics
GEOG 560	Advanced Quantitative Methods
I SY E 521	Machine Learning in Action for Industrial Engineers
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
SOC 362	Statistics for Sociologists III
SOC 375	Introduction to Mathematical Sociology
STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization

**Total Credits** **40-54**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all STAT and major courses
- 2.000 GPA on 15 Upper-Level Major credits, taken In Residence<sup>3</sup>
- 15 credits in STAT courses, taken on the UW-Madison campus

## HONORS IN THE MAJOR

Students may declare Honors in the Statistics Major in consultation with the Statistics major advisor(s). To be admitted to the Honors Program in Statistics, students must have declared Statistics, must have a 3.500 University GPA, and must have completed STAT 302, STAT/MATH 309, and STAT 333 (or other courses with the approval of the advisor) with a GPA of 3.500 or higher in these three classes.

## HONORS IN THE STATISTICS MAJOR: REQUIREMENTS

To earn Honors in the Major in Statistics, students must satisfy both the requirements for the major (above) and the following additional requirements:

- Earn a 3.500 University GPA
- Earn a 3.500 GPA for all STAT courses
- Complete two STAT major courses (excluding 699) for a total of 6 Honors credits (<http://honors.ls.wisc.edu/SiteContent.aspx?prev=1&id=370>) **or** complete 18 total credits of electives in the major where 12-18 credits come from the core elective category and 0-6 credits from the domain elective category
- STAT 681-STAT 682, for a total of 6 credits, under the supervision of a member of the Statistics faculty.

## FOOTNOTES

1

A grade of C or higher is required for this course to meet the requirement.

2

STAT 479 and STAT 679 can be repeated for elective credit when enrolled for different topics.

3

Courses that are considered Upper-Level in the major are STAT 303, STAT 304, STAT 305, STAT/MATH 309, MATH 531, STAT/MATH 310, STAT 311, STAT 312, STAT 327, STAT 333, STAT 340, STAT 349, STAT 351, STAT 360, STAT 405, STAT 411, STAT 421, STAT/M E 424, STAT/MATH 431, STAT 433, STAT 436, STAT 443, STAT 451, STAT 453, STAT 456, STAT 461, STAT/COMP SCI 471, STAT 479, STAT/I SY E/MATH/OTM 632, STAT/B M I 641, STAT/B M I 642, STAT 699, ACT SCI 653, ACT SCI 654, COMP SCI/E C E/M E 532, COMP SCI/E C E 561, ECON 570, GEN BUS 656, GEOG 560, I SY E 521, MATH 635, SOC 362, SOC 375, STAT/COMP SCI/MATH 475, STAT/COMP SCI/I SY E/MATH 525.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Frame a scientific question with the appropriate mode of data analysis, to analyze such data correctly, and to summarize and interpret the results in a useful manner. Master a number of key statistical techniques, certainly including significance testing, goodness-of-fit testing, and regression analysis, which are common tools in analyzing data. This will include a careful checking of assumptions that underlie the techniques.
2. Design experiments/studies – in conjunction with scientists proposing the study – that will lead in an efficient manner to the collection of data that can be properly analyzed. Design studies with multiple factors taking variable reduction techniques into account. Interpret and critique designs they encounter in analyzing data.
3. Use tools from mathematical statistics and probability to assess the quality of point estimators, confidence intervals, and hypothesis tests. Demonstrate the skills to connect methods of application to their theoretical underpinnings.
4. Use a statistical language (with emphasis on R) to manipulate data and perform exploratory data analysis using basic statistical methods. Write structured R programs using conditional expressions, loops, and

functions and to use regular expressions to extract data from text and make high-level visualizations.

- Evaluate critically articles that use statistical argumentation. Assess whether or not the statistical arguments have been developed properly and the conclusions are reliable. If the arguments are not properly developed, they will be able to provide specific evidence for this.

## FOUR-YEAR PLAN

### SAMPLE FOUR-YEAR PLAN

This Sample Four-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own four-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests. As students become involved in athletics, honors, research, student organizations, study abroad, volunteer experiences, and/or work, they might adjust the order of their courses to accommodate these experiences. Students will likely revise their own four-year plan several times during college.

#### First Year

Fall	Credits	Spring	Credits
Communication A	3	MATH 222	4
MATH 221	5	COMP SCI 200 or 220	3-4
Foreign Language	4	Ethnic Studies course	4
Physical Science Breadth	3	Foreign Language	4
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234	4	STAT 303	1
Introductory Statistics course	3-4	STAT 333 or 340	3-4
Communications B	3	MATH 320, 340, or 341	3
Social Science Breadth	3	INTER-LS 210	1
Humanities Breadth	3	Biological Science Breadth	3
		Literature Breadth	3
	<b>16</b>		<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
STAT/MATH 309	3	STAT/MATH 310	3
STAT/M E 424	3	STAT elective course	3
Social Science Breadth	6	Literature Breadth	3
Humanities Breadth	3	Social Science Breadth	3
		Elective	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
STAT elective course	6	STAT elective course	6
Elective	9	Elective	9
	<b>15</b>		<b>15</b>

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
STAT 301	Introduction to Statistical Methods	3
or STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 324	Introductory Applied Statistics for Engineers	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or STAT 240	Data Science Modeling I	

- 3-4 units of foreign language
- At least 3 credits of L&S Breadth (Humanities, Social Science, Biological Science, or Physical Science)

#### First Year

Fall	Credits	Spring	Credits
MATH 234	4	STAT 303	1
COMP SCI 200 or 220	3-4	STAT 333 or 340	3-4
Communications A	3	MATH 320, 340, or 341	3
Social Science Breadth	3	Ethnic Studies	3
Elective	3	Humanities Breadth	3
		Elective	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
STAT/MATH 309	3	STAT/MATH 310	3
STAT/M E 424	3	STAT Elective course	3
Communications B	3	Literature Breadth	3
Physical Science Breadth	3	Biological Science Breadth	3
Social Science Breadth	3	INTER-LS 210	1
	<b>15</b>		<b>13</b>

**Third Year**

Fall	Credits	Spring	Credits
STAT Elective course	3	STAT Elective course	3
STAT Elective course	3	STAT Elective course	3
Humanities Breadth	3	Literature Breadth	3
Physical Science Breadth	3	Biological Science Breadth	3
Social Science Breadth	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 90****ADVISING AND CAREERS****Looking for Statistics Advising?**

Students who are interested in statistics academic advising for the statistics major should visit the Undergraduate Statistics Advising (<https://stat.wisc.edu/undergraduate-statistics-major/>) website or contact the advisor group by email: [advising@stat.wisc.edu](mailto:advising@stat.wisc.edu).

**So what can you do with a statistics major after you graduate?**

Well-trained statisticians are in strong demand and have excellent employment prospects. Statisticians work in industry and business, in government, and in universities and other research institutions.

In most cases an undergraduate major in statistics can find employment as a quantitative analyst or other “generalist” position. A number of our graduates have been successful following this path. However, in most cases, positions aimed at “professional statisticians” require a master’s (or Ph.D.) degree. As a professional statistician, typical employment in industry might be as a statistical consultant to biologists, engineers, and/or other scientists in a research and development branch of a large company.

The single, best place to look for statistics jobs is the American Statistical Association Career Center (<http://www.amstat.org/ASA/Your-Career/home.aspx>). Consult with a statistics undergraduate advisor about the best fit for you.

Statistical training is seen as very desirable in many other areas (e.g., agricultural, biological, engineering, and social sciences, business, and economics) where the primary activity may not be statistics. In view of this, statistics may often be a strong choice for a second or additional major.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students’ lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

A full listing of the Statistics faculty, including affiliated faculty and links to webpages, can be found on the departmental website (<https://stat.wisc.edu/people-main-faculty/>).

Faculty:

- Cecile Ane, Professor Statistics and Botany
- Joshua Cape, Assistant Professor, Statistics
- Peter Chien, Professor Statistics
- Jessi Cisewski-Kehe, Assistant Professor, Statistics
- Sameer Deshpande, Assistant Professor, Statistics
- Nicolas Garcia Trillos, Assistant Professor, Statistics
- Yinqiu He, Assistant Professor, Statistics
- Hyunseung Kang, Assistant Professor, Statistics
- Sunduz Keles, Professor, Statistics & Biostatistics and Medical Informatics
- Bret Larget, Professor Statistics
- Keith Levin, Assistant Professor, Statistics
- Wi-Yin Loh, Professor, Statistics
- Michael Newton, Professor, Statistics & Biostatistics and Medical Informatics
- Vivak Patel, Assistant Professor, Statistics
- Alejandra Quintos, Assistant Professor, Statistics
- Sebastian Raschka, Assistant Professor, Statistics
- Garvesh Raskutti, Associate Professor, Statistics
- Karl Rohe, Professor, Statistics
- Kris Sankaran, Assistant Professor, Statistics
- Jun Shao, Professor, Statistics
- Miaoyan Wang, Assistant Professor, Statistics
- Yazhen Wang, Chair and Professor, Statistics
- Brian Yandell, Professor, Statistics
- Chunming Zhang, Professor, Statistics
- Zhengjun Zhang, Professor, Statistics

- Yiqiao Zhong, Assistant Professor, Statistics
- Jun Zhu, Professor, Statistics

## STATISTICS, B.S.

Modern statistics is an exciting subject that affects most aspects of modern living. It has been developed to deal rationally and objectively with the uncertainty that accompanies variation in phenomena as highly complex as the interplay of the many factors that affect our environment. It derives vitality in coping with practical problems arising in all fields of scientific activity, including the social, business, biological, agricultural, medical, natural, and engineering sciences. Investigators' efforts to learn about a specific phenomenon, be it the response of a patient to a certain medical treatment or the effectiveness of a particular instructional program on a student's learning, are impacted by the presence of natural variation. The field of statistics is concerned with valid and efficient ways to learn more about these phenomena in the presence of such variation. It is an inductive science in which information is extracted from sample data in order to draw inferences. This process most often involves planning experiments or designing studies to ensure that valid answers to questions are obtained from the sample.

### HOW TO GET IN

To declare the statistics major, students should schedule an appointment with a statistics major advisor prior to attaining senior standing (86 credits). Information regarding major declaration and how to schedule an appointment is available on the major webpage (<https://stat.wisc.edu/undergraduate-statistics-major/>).

Students must have a 2.000 GPA on coursework counting in the major, and a 2.000 GPA on any upper-level work in the major completed prior to declaration. No specific coursework must be completed to declare.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF SCIENCE (B.S.)

Students pursuing a Bachelor of Science degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either the Bachelor of Arts or the Bachelor of Science degree requirements.

### BACHELOR OF SCIENCE DEGREE REQUIREMENTS

**Mathematics** Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

**Foreign Language** Complete the third unit of a foreign language.

**L&S Breadth** Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

**Liberal Arts and Science Coursework** Complete at least 108 credits.

**Depth of Intermediate/Advanced Coursework** Complete at least 60 credits at the Intermediate or Advanced level.

**Major** Declare and complete at least one major.

**Total Credits** Complete at least 120 credits.

**UW-Madison Experience** Complete both:

- 30 credits in residence, overall, and
- 30 credits in residence after the 86th credit.

**Quality of Work**

- 2.000 in all coursework at UW–Madison
- 2.000 in Intermediate/Advanced level coursework at UW–Madison

### NON-L&S STUDENTS PURSUING AN L&S MAJOR

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the

major requirements. They do not need to complete the L&S Degree Requirements above.

## REQUIREMENTS FOR THE MAJOR MATHEMATICS

Code	Title	Credits
<b>Calculus 1 (Complete one):</b>		<b>5-10</b>
MATH 221	Calculus and Analytic Geometry 1 <sup>1</sup>	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II <sup>1</sup>	
<b>Calculus 2 (Complete one):</b>		<b>4-5</b>
MATH 222	Calculus and Analytic Geometry 2 <sup>1</sup>	
<b>Calculus 3 (Complete one):</b>		<b>4-5</b>
MATH 234	Calculus--Functions of Several Variables <sup>1</sup>	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
<b>Linear Algebra (Complete one):</b>		<b>3-5</b>
MATH 340	Elementary Matrix and Linear Algebra	
MATH 320	Linear Algebra and Differential Equations	
MATH 341	Linear Algebra	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
<b>Total Credits</b>		<b>16-25</b>

## COMPUTER PROGRAMMING

Code	Title	Credits
<b>Complete one of:</b>		<b>3-4</b>
COMP SCI 200	Programming I	
COMP SCI 220	Data Science Programming I	
COMP SCI 300	Programming II	
COMP SCI 320	Data Science Programming II	
COMP SCI 400	Programming III	
COMP SCI 412	Introduction to Numerical Methods	
<b>Total Credits</b>		<b>3-4</b>

## STATISTICS

Code	Title	Credits
<b>Introductory Statistics &amp; Basic Statistical Language:</b>		<b>4-5</b>
STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 301	Introduction to Statistical Methods	
or STAT 324	Introductory Applied Statistics for Engineers	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or STAT 240	Data Science Modeling I	
STAT 303	R for Statistics I	
<b>Statistical Models:</b>		<b>6-7</b>
STAT 333	Applied Regression Analysis	
or STAT 340	Data Science Modeling II	

STAT/M E 424	Statistical Experimental Design	
<b>Probability (Complete one):</b>		<b>3</b>
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/MATH 431	Introduction to the Theory of Probability	
MATH 531	Probability Theory	
<b>Inference:</b>		<b>3</b>
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
<b>Electives:</b>		<b>15</b>
Students will complete a total of 15 credits of electives with a maximum of 6 credits from the domain electives		
<i>Core Electives</i>		<i>9-15</i>
STAT 304	R for Statistics II	
STAT 305	R for Statistics III	
STAT 327	Learning a Statistical Language	
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 360	Topics in Statistics Study Abroad	
STAT 405	Data Science Computing Project	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT 433	Data Science with R	
STAT 443	Classification and Regression Trees	
STAT 436	Statistical Data Visualization	
STAT 451	Introduction to Machine Learning and Statistical Pattern Classification	
STAT 453	Introduction to Deep Learning and Generative Models	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/COMP SCI 471	Introduction to Computational Statistics	
STAT 479	Special Topics in Statistics <sup>2</sup>	
STAT 575	Statistical Methods for Spatial Data	
STAT/I SY E/ MATH/OTM 632	Introduction to Stochastic Processes	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT/B M I 642	Statistical Methods for Epidemiology	
STAT 679	Special Topics in Statistics <sup>2</sup>	
<i>Domain Electives</i>		<i>0-6</i>
ACT SCI 653	Loss Models II	
ACT SCI 654	Regression and Time Series for Actuaries	
COMP SCI/E C E/ M E 532	Matrix Methods in Machine Learning	
COMP SCI/ E C E 561	Probability and Information Theory in Machine Learning	

ECON 570	Fundamentals of Data Analytics for Economists
GEN BUS 656	Machine Learning for Business Analytics
GEOG 560	Advanced Quantitative Methods
I SY E 521	Machine Learning in Action for Industrial Engineers
MATH 635	An Introduction to Brownian Motion and Stochastic Calculus
SOC 362	Statistics for Sociologists III
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STAT/COMP SCI/ MATH 475	Introduction to Combinatorics
STAT/COMP SCI/ I SY E/MATH 525	Linear Optimization

**Total Credits** **40-54**

## RESIDENCE & QUALITY OF WORK

- 2.000 GPA in all STAT and major courses
- 2.000 GPA on 15 Upper-Level Major credits, taken In Residence<sup>3</sup>
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- Earn a 3.500 GPA for all STAT courses
- Complete two STAT major courses (excluding 699) for a total of 6 Honors credits (<http://honors.ls.wisc.edu/SiteContent.aspx?prev=1&id=370>) **or** complete 18 total credits of electives in the major where 12-18 credits come from the core elective category and 0-6 credits from the domain elective category
- STAT 681 -STAT 682, for a total of 6 credits, under the supervision of a member of the Statistics faculty.

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2. Design experiments/studies – in conjunction with scientists proposing the study – that will lead in an efficient manner to the collection of data that can be properly analyzed. Design studies with multiple factors taking variable reduction techniques into account. Interpret and critique designs they encounter in analyzing data.
3. Use tools from mathematical statistics and probability to assess the quality of point estimators, confidence intervals, and hypothesis tests. Demonstrate the skills to connect methods of application to their theoretical underpinnings.
4. Use a statistical language (with emphasis on R) to manipulate data and perform exploratory data analysis using basic statistical methods. Write structured R programs using conditional expressions, loops, and functions and to use regular expressions to extract data from text and make high-level visualizations.

5. Evaluate critically articles that use statistical argumentation. Assess whether or not the statistical arguments have been developed properly and the conclusions are reliable. If the arguments are not properly developed, they will be able to provide specific evidence for this.

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#### First Year

Fall	Credits	Spring	Credits
Communication A		3 MATH 222	4
MATH 221		5 COMP SCI 200 or 220	3-4
Foreign Language		4 Ethnic Studies course	4
Physical Science Breadth		3 Foreign Language	4
	<b>15</b>		<b>15</b>

#### Second Year

Fall	Credits	Spring	Credits
MATH 234		4 STAT 303	1
Introductory Statistics course		3-4 STAT 333 or 340	3-4
Communications B		3 MATH 320, 340, or 341	3
Social Science Breadth		3 INTER-LS 210	1
Humanities Breadth		3 Biological Science Breadth	3
		Literature Breadth	3
	<b>16</b>		<b>14</b>

#### Third Year

Fall	Credits	Spring	Credits
STAT/MATH 309		3 STAT/MATH 310	3
STAT/M E 424		3 STAT elective course	3
Social Science Breadth		6 Literature Breadth	3
Humanities Breadth		3 Social Science Breadth	3
		Elective	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
STAT elective course		6 STAT elective course	6
Elective		9 Elective	9
	<b>15</b>		<b>15</b>

**Total Credits 120**

## THREE-YEAR PLAN

### SAMPLE THREE-YEAR PLAN

This Sample Three-Year Plan is a tool to assist students and their advisor(s). Students should use it—along with their DARS report, the Degree Planner, and Course Search & Enroll tools—to make their own three-year plan based on their placement scores, credit for transferred courses and approved examinations, and individual interests.

Three-year plans may vary considerably from student to student, depending on their individual preparation and circumstances. Students interested in graduating in three years should meet with an advisor as early as possible to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and opportunities they might forgo in pursuit of a three-year graduation plan.

### DEPARTMENTAL EXPECTATIONS

A three-year degree is feasible for students with a variety of backgrounds and specific preparation. Students should ideally be entering the University with a minimum of 30 advanced standing credits, and have satisfied the following requirements with course credit or via placement examination:

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
STAT 301	Introduction to Statistical Methods	3
or STAT 302	Accelerated Introduction to Statistical Methods	
or STAT 324	Introductory Applied Statistics for Engineers	
or STAT 371	Introductory Applied Statistics for the Life Sciences	
or STAT 240	Data Science Modeling I	

- 3-4 units of foreign language
- At least 3 credits of L&S Breadth (Humanities, Social Science, Biological Science, or Physical Science)

#### First Year

Fall	Credits	Spring	Credits
MATH 234		4 STAT 303	1
COMP SCI 200 or 220		3-4 STAT 333 or 340	3-4
Communications A		3 MATH 320, 340, or 341	3
Social Science Breadth		3 Ethnic Studies	3
Elective		3 Humanities Breadth	3
		Elective	3
	<b>16</b>		<b>16</b>

#### Second Year

Fall	Credits	Spring	Credits
STAT/MATH 309		3 STAT/MATH 310	3
STAT/M E 424		3 STAT Elective course	3
Communications B		3 Literature Breadth	3
Physical Science Breadth		3 Biological Science Breadth	3
Social Science Breadth		3 INTER-LS 210	1
	<b>15</b>		<b>13</b>



**Third Year**

Fall	Credits	Spring	Credits
STAT Elective course	3	STAT Elective course	3
STAT Elective course	3	STAT Elective course	3
Humanities Breadth	3	Literature Breadth	3
Physical Science Breadth	3	Biological Science Breadth	3
Social Science Breadth	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 90****ADVISING AND CAREERS****Looking for Statistics Advising?**

Students who are interested in statistics academic advising for the statistics major should visit the Undergraduate Statistics Advising (<https://stat.wisc.edu/undergraduate-statistics-major/>) website or contact the advisor group by email: [advising@stat.wisc.edu](mailto:advising@stat.wisc.edu).

**So what can you do with a statistics major after you graduate?**

Well-trained statisticians are in strong demand and have excellent employment prospects. Statisticians work in industry and business, in government, and in universities and other research institutions.

In most cases an undergraduate major in statistics can find employment as a quantitative analyst or other “generalist” position. A number of our graduates have been successful following this path. However, in most cases, positions aimed at “professional statisticians” require a master’s (or Ph.D.) degree. As a professional statistician, typical employment in industry might be as a statistical consultant to biologists, engineers, and/or other scientists in a research and development branch of a large company.

The single, best place to look for statistics jobs is the American Statistical Association Career Center (<http://www.amstat.org/ASA/Your-Career/home.aspx>). Consult with a statistics undergraduate advisor about the best fit for you.

Statistical training is seen as very desirable in many other areas (e.g., agricultural, biological, engineering, and social sciences, business, and economics) where the primary activity may not be statistics. In view of this, statistics may often be a strong choice for a second or additional major.

**L&S CAREER RESOURCES**

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

In addition to providing basic support like resume reviews and interview practice, SuccessWorks offers ways to explore interests and build career skills from their very first semester/term at UW all the way through graduation and beyond.

Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or

graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

- SuccessWorks (<https://careers.ls.wisc.edu/>)
- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>) - a great idea for first- and second-year students:
  - INTER-LS 210 L&S Career Development: Taking Initiative (1 credit)
  - INTER-LS 215 Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
  - INTER-LS 260 Internship in the Liberal Arts and Sciences
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
- Learn about the impact SuccessWorks has on students’ lives (<https://successworks.wisc.edu/about/mission/>)

**PEOPLE**

A full listing of the Statistics faculty, including affiliated faculty and links to webpages, can be found on the departmental website (<https://stat.wisc.edu/people-main-faculty/>).

Faculty:

- Cecile Ane, Professor Statistics and Botany
- Joshua Cape, Assistant Professor, Statistics
- Peter Chien, Professor Statistics
- Jessi Cisewski-Kehe, Assistant Professor, Statistics
- Sameer Deshpande, Assistant Professor, Statistics
- Nicolas Garcia Trillos, Assistant Professor, Statistics
- Yinqiu He, Assistant Professor, Statistics
- Hyunseung Kang, Assistant Professor, Statistics
- Sunduz Keles, Professor, Statistics & Biostatistics and Medical Informatics
- Bret Larget, Professor Statistics
- Keith Levin, Assistant Professor, Statistics
- Wi-Yin Loh, Professor, Statistics
- Michael Newton, Professor, Statistics & Biostatistics and Medical Informatics
- Vivak Patel, Assistant Professor, Statistics
- Alejandra Quintos, Assistant Professor, Statistics
- Sebastian Raschka, Assistant Professor, Statistics
- Garvesh Raskutti, Associate Professor, Statistics
- Karl Rohe, Professor, Statistics
- Kris Sankaran, Assistant Professor, Statistics
- Jun Shao, Professor, Statistics
- Miaoyan Wang, Assistant Professor, Statistics
- Yazhen Wang, Chair and Professor, Statistics
- Brian Yandell, Professor, Statistics
- Chunming Zhang, Professor, Statistics
- Zhengjun Zhang, Professor, Statistics

- Yiqiao Zhong, Assistant Professor, Statistics
- Jun Zhu, Professor, Statistics

## STATISTICS, CERTIFICATE

The Statistics certificate is a great fit for students who wish to use statistical principles to solve data problems with a mathematical approach. Students will develop knowledge and skills in analytics and statistics, such as understanding how to work with data and applying their analysis within their given major or domain area. Statistics continues to be one of the fastest growing employment sectors in the nation and in Wisconsin and the Statistics certificate will allow a broader range of students to gain these highly desired skills.

Students in the certificate will gain “scientific, professional and technological expertise, and a sense of purpose.”

### HOW TO GET IN

Students must have credit for the following to declare the certificate:

Code	Title	Credits
<b>Complete one introductory statistics course</b>		
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Complete one calculus course</b>		
MATH 221	Calculus and Analytic Geometry I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	

Declaration of the certificate occurs via an online form, but students are encouraged to schedule a meeting with a Statistics advisor if they have questions.

Students declared in the Statistics major or Data Science major are not eligible to declare this certificate.

### REQUIREMENTS

## REQUIREMENTS FOR THE CERTIFICATE IN STATISTICS

The certificate requires a minimum of 13 credits.

Code	Title	Credits
<b>Introductory Statistics, complete one option</b>		
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	

STAT 302	Accelerated Introduction to Statistical Methods	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 371	Introductory Applied Statistics for the Life Sciences	
<b>Statistical Language</b>		<b>1</b>
STAT 303	R for Statistics I	
<b>Regression Analysis, complete one option</b>		<b>3-4</b>
STAT 333	Applied Regression Analysis	
STAT 340	Data Science Modeling II	
<b>Probability, complete one option</b>		<b>3</b>
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
MATH 331	Introductory Probability	
STAT/MATH 431	Introduction to the Theory of Probability	
MATH 531	Probability Theory	
<b>Elective, complete one option</b>		<b>3</b>
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II	
STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	
STAT 349	Introduction to Time Series	
STAT 351	Introductory Nonparametric Statistics	
STAT 405	Data Science Computing Project	
STAT 411	An Introduction to Sample Survey Theory and Methods	
STAT 421	Applied Categorical Data Analysis	
STAT/M E 424	Statistical Experimental Design	
STAT 433	Data Science with R	
STAT 436	Statistical Data Visualization	
STAT 443	Classification and Regression Trees	
STAT 451	Introduction to Machine Learning and Statistical Pattern Classification	
STAT 453	Introduction to Deep Learning and Generative Models	
STAT 456	Applied Multivariate Analysis	
STAT 461	Financial Statistics	
STAT/COMP SCI 471	Introduction to Computational Statistics	
STAT 479	Special Topics in Statistics	
STAT 575	Statistical Methods for Spatial Data	
STAT/B M I 641	Statistical Methods for Clinical Trials	
STAT/B M I 642	Statistical Methods for Epidemiology	

**Total Credits** **13**

## RESIDENCE AND QUALITY OF WORK

- At least 7 certificate credits must be completed in residence
- Minimum 2.000 GPA on all certificate courses

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Frame a scientific question with the appropriate mode of data analysis, analyze such data correctly, and summarize and interpret the results in a useful manner
2. Apply a number of key statistical techniques, including significance testing, goodness-of-fit testing, and regression analysis
3. Use tools from mathematical statistics and probability to assess the quality of point estimators, confidence intervals, and hypothesis tests
4. Apply a statistical language to manipulate data and perform exploratory data analysis using basic statistical methods

### ADVISING AND CAREERS

Students who are interested in statistics academic advising should check out the advising information on our website (<https://stat.wisc.edu/statistics-certificate/>) or send an email to [statcert@stat.wisc.edu](mailto:statcert@stat.wisc.edu).

Please note that students will need at least Calculus 2 to finish the Statistics certificate requirements.

## L&S CAREER RESOURCES

Every L&S major opens a world of possibilities. SuccessWorks (<https://successworks.wisc.edu/>) at the College of Letters & Science helps students turn the academic skills learned in their major, certificates, and other coursework into fulfilling lives after graduation, whether that means jobs, public service, graduate school or other career pursuits.

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Students can explore careers in one-on-one advising, try out different career paths, complete internships, prepare for the job search and/or graduate school applications, and connect with supportive alumni and even employers in the fields that inspire them.

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- Set up a career advising appointment (<https://successworks.wisc.edu/make-an-appointment/>)
- Enroll in a Career Course (<https://successworks.wisc.edu/career-courses/>)- a great idea for first- and second-year students:
  - INTER-LS 210 (<https://guide.wisc.edu/search/?P=INTER-LS%20210>) L&S Career Development: Taking Initiative (1 credit)

- INTER-LS 215 (<https://guide.wisc.edu/search/?P=INTER-LS%20215>) Communicating About Careers (3 credits, fulfills Comm B General Education Requirement)
- Learn about internships and internship funding (<https://successworks.wisc.edu/finding-a-job-or-internship/>)
- Activate your Handshake account (<https://successworks.wisc.edu/handshake/>) to apply for jobs and internships from 200,000+ employers recruiting UW-Madison students
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- Karl Rohe, Professor, Statistics
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- Miaoyan Wang, Assistant Professor, Statistics
- Yazhen Wang, Chair and Professor, Statistics
- Brian Yandell, Professor, Statistics
- Chunming Zhang, Professor, Statistics
- Zhengjun Zhang, Professor, Statistics
- Yiqiao Zhong, Assistant Professor, Statistics
- Jun Zhu, Professor, Statistics

## GAYLORD NELSON INSTITUTE FOR ENVIRONMENTAL STUDIES

The Institute for Environmental Studies was created in 1970 to promote and enhance interdisciplinary environmental instruction, research, and outreach at UW–Madison. In 2002, it was renamed in honor of former Wisconsin governor and U.S. Senator Gaylord Nelson, the founder of Earth Day and a lifelong champion of environmental stewardship.

The program espouses an integrated approach to learning about the environment. Students are encouraged to consider their interests, strengths, and values beyond the context of their courses and connect the subject of the environment to their other courses as well as their extracurricular experiences. The Nelson Institute is a robust environmental community in which students learn about current environmental issues, and more important, how to link environmental science, policy, literature, art, and philosophy to other fields of study. The focus on the intentional integration of their academic endeavors with their interests, skills, and values provides a powerful source of self-awareness that prepares students for success across a variety of options. Finding one’s strength within this interdisciplinary approach affords students access to a wide variety of career settings and postgraduate options.

Approximately 170 faculty members from more than 50 natural and social science, engineering, and humanities departments are affiliated with the Nelson Institute, which offers scores of undergraduate-level courses in cooperation with the university’s schools and colleges. The institute offers an undergraduate major and two certificates. The environmental studies major must always be done in tandem with another major on campus. Environmental studies majors have second majors in every school and college on campus, and the student population reflects the interdisciplinary focus of the Nelson Institute and its curricular offerings. All UW–Madison undergraduates are invited to consider the program.

### DEGREES/MAJORS/CERTIFICATES

- Environmental Studies, Certificate (p. 1444)
- Sustainability, Certificate (p. 1450)

The Nelson Institute also administers the Environmental Studies major (p. 723), available through the College of Letters & Science.

## ENVIRONMENTAL STUDIES

- Environmental Studies, Certificate (p. 1444)
- Sustainability, Certificate (p. 1450)

## ENVIRONMENTAL STUDIES, CERTIFICATE

### WHY CHOOSE AN ENVIRONMENTAL STUDIES CERTIFICATE?

The Environmental Studies Certificate Program allows undergraduate students at UW–Madison to explore the environmental intersections that complement their major, but with fewer curricular requirements than the major. Students completing the certificate also benefit from participation in the Nelson academic community and gain invaluable access to a network of multidisciplinary problem-solving colleagues. The certificate program is available only to UW–Madison students pursuing a bachelor’s degree through the university’s regular academic departments.

Completion of the certificate program is noted on a student’s academic transcript.

### HOW TO GET IN

#### HOW TO DECLARE

Students interested in declaring the environmental studies certificate can email [undergrad@nelson.wisc.edu](mailto:undergrad@nelson.wisc.edu) or request a declaration appointment. Information about declaring the certificate can be found at undergraduate advising (<https://nelson.wisc.edu/undergraduate/advising.php>).

Students who earn an environmental studies certificate may **not** earn the environmental studies major or the sustainability certificate or the organic agriculture certificate.

### REQUIREMENTS

#### REQUIREMENTS FOR THE CERTIFICATE

Students are required to take five courses/15 credits to include two courses in the Foundation section and three courses in the thematic areas. A minimum of 6 credits overall must be at the intermediate or advanced level (I/A/D). A minimum of 8 credits must be taken in residence. A minimum GPA of 2.0 is required in certificate courses.

#### ENVIRONMENTAL HUMANITIES/SOCIAL SCIENCE (TAKE ONE COURSE)

Code	Title	Credits
ENVIR ST 112	Environmental Studies: Social Science Perspectives	3
ENVIR ST 113	Environmental Studies: Environmental Humanities	3
ENVIR ST/HIST SCI/HISTORY 125	Green Screen: Environmental Perspectives through Film	3
ENVIR ST/ GEOG 139	Global Environmental Issues	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4

ENVIR ST 239		3-4
ENVIR ST/A A E 244	The Environment and the Global Economy	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
ENVIR ST/ RELIG ST 270	The Environment: Religion & Ethics	3-4
ENVIR ST/ GEOG 339	Environmental Conservation	4
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
ENVIR ST/ HISTORY 465	Global Environmental History	3-4
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4

## ENVIRONMENTAL PHYSICAL SCIENCE/ ECOLOGY (TAKE ONE COURSE)

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	4
ENVIR ST/ GEOSCI 106	Environmental Geology	3
GEOSCI 110	Evolution and Extinction	4
PHYSICS 115	Energy and Climate	3
ENVIR ST/ GEOG 120	Introduction to the Earth System	3
ENVIR ST/ILS 126	Principles of Environmental Science	4
ENVIR ST/GEOG 127	Physical Systems of the Environment	5
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3
BOTANY 240	Plants and Humans	3
ENVIR ST 251	Ecology and the Global Environment	3
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3
SOIL SCI 301	General Soil Science	3
ENVIR ST/ ATM OCN/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
F&W ECOL 401	Physiological Animal Ecology	3
ENVIR ST 413	Preserving Nature	3
F&W ECOL/ BOTANY/ ZOOLOGY 460	General Ecology	4
F&W ECOL 550	Forest Ecology	3

## THEME

- Students are required to take three courses (min 9 cr.) from the thematic areas listed below.
- Courses may be concentrated in one area or taken in multiple areas.
- Courses taken in the thematic areas cannot also be used in foundation.

## BIODIVERSITY

Code	Title	Credits
ENVIR ST/ F&W ECOL 100	Forests of the World	3
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOSCI 110	Evolution and Extinction	4
BIOCORE 181	Becoming a Scientist: Doing Biology Research	2
ENVIR ST/ ENTOM 201	Insects and Human Culture-a Survey Course in Entomology	3
BOTANY 240	Plants and Humans	3
ENVIR ST 251	Ecology and the Global Environment	3
ENVIR ST/BOTANY/ ZOOLOGY 260	Introductory Ecology	3
ENTOM/ ZOOLOGY 302	Introduction to Entomology	4
GEOG/BOTANY 338	Environmental Biogeography	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
SOIL SCI/ AGRONOMY/ BOTANY 370	Grassland Ecology	3
ENVIR ST 375	Field Ecology Workshop	3
BOTANY 401	Vascular Flora of Wisconsin	4
F&W ECOL 401	Physiological Animal Ecology	3
BOTANY/ANTHRO/ ZOOLOGY 410	Evolutionary Biology	3
ENVIR ST 413	Preserving Nature	3
BOTANY 422	Plant Geography	3
ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
F&W ECOL 448	Disturbance Ecology	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology	4
ENTOM 490	Biodiversity and Global Change	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin	3

ATM OCN/ AGRONOMY/ SOIL SCI 532	Environmental Biophysics	3
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
ENVIR ST 613	Reproducibility and Open Science in Ecological Research	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
BOTANY/ F&W ECOL/ ZOOLOGY 672	Historical Ecology	2

## CLIMATE

Code	Title	Credits
ATM OCN 100	Weather and Climate	3
ATM OCN 101	Weather and Climate	4
ENVIR ST/ ATM OCN/ GEOSCI 102	Climate and Climate Change	3
ENVIR ST/ ATM OCN 171	Global Change: Atmospheric Issues and Problems	2-3
SOIL SCI 211	Soils and Climate Change	2
A A E 246	Climate Change Economics and Policy	3
ED POL 320	Climate Change, Sustainability, and Education	3
ENVIR ST/ ATM OCN/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ENVIR ST/ ATM OCN/GEOG/ GEOSCI 335	Climatic Environments of the Past	3
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
ENVIR ST 349	Climate Change Governance	3
ENVIR ST/ ATM OCN 355	Introduction to Air Quality	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
ATM OCN 425	Global Climate Processes	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ PHYSICS 472	Scientific Background to Global Environmental Problems	3
ENVIR ST/ ATM OCN 520	Bioclimatology	3
ATM OCN 522	Tropical Meteorology	3

GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change	3
ENVIR ST/ ATM OCN/ GEOG 528	Past Climates and Climatic Change	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3

## ENERGY

Code	Title	Credits
PHYSICS 115	Energy and Climate	3
E C E 356	Electric Power Processing for Alternative Energy Systems	3
ENVIR ST/BSE 367	Renewable Energy Systems	3
A A E/ECON 371	Energy, Resources and Economics	3
ENVIR ST/ GEOSCI 411	Energy Resources	3
BSE 460	Biorefining: Energy and Products from Renewable Resources	3
M E 461	Thermal Systems Modeling	3
M E 466	Air Pollution Effects, Measurements and Control	3
CIV ENGR/ G L E 535	Wind Energy Balance-of-Plant Design	3
ENVIR ST/ ATM OCN 535	Atmospheric Dispersion and Air Pollution	3
ENVIR ST/A A E/ CIV ENGR/ URB R PL 561	Energy Markets	3
ENVIR ST/A A E/ ECON/URB R PL 671	Energy Economics	3

## FOOD AND AGRICULTURE

Code	Title	Credits
ENVIR ST/ AGROECOL/ AGRONOMY/ C&E SOC/ ENTOM 103	Agroecology: An Introduction to the Ecology of Food and Agriculture	3
ENVIR ST 117	GreenHouse Roots Seminar	1
FOOD SCI 120	Science of Food	3
NUTR SCI 132	Nutrition Today	3
SOIL SCI 211	Soils and Climate Change	2
SOC/C&E SOC 222	Food, Culture, and Society	3
HIST SCI/ C&E SOC 230	Agriculture and Social Change in Western History	3
AGRONOMY 300	Cropping Systems	3
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
HORT 333	Survey of Controlled Environment Food Production	2
C&E SOC/A A E/ SOC 340	Issues in Food Systems	3-4

MED HIST/ PHILOS 344	Food Ethics	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
CNSR SCI 360	Sustainable and Socially Just Consumption	3
HORT 370	World Vegetable Crops	3
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
AGRONOMY 377	Global Food Production and Health	3
FOLKLORE 439	Foodways	3
SOC/C&E SOC 650	Sociology of Agriculture	3

## HEALTH

Code	Title	Credits
ENVIR ST/ ENTOM 205	Our Planet, Our Health	3
ENVIR ST/ HIST SCI 213	Global Environmental Health: An Interdisciplinary Introduction	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
CIV ENGR 422	Elements of Public Health Engineering	3
CIV ENGR 423	Air Pollution Effects, Measurement and Control	3
SOIL SCI 430	Environmental Soil Contamination	3
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
GEN&WS/ INTL ST 535	Women's Global Health and Human Rights	3
POP HLTH/ HIST SCI/ MED HIST 553	International Health and Global Society	3
CIV ENGR/ M&ENVTOX/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 632	Ecotoxicology: The Chemical Players	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 633	Ecotoxicology: Impacts on Individuals	1
AGRONOMY/ ENTOM/F&W ECOL/ M&ENVTOX 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1

## HISTORY, CULTURE, SOCIETY

Code	Title	Credits
ENVIR ST 112	Environmental Studies: Social Science Perspectives	3

ENVIR ST 113	Environmental Studies: Environmental Humanities	3
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
ENVIR ST/ILS 126	Principles of Environmental Science	4
ENVIR ST/ GEOG 139	Global Environmental Issues	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
HISTORY/ CHICLA 151	The North American West to 1850	3-4
HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4
ENVIR ST/ENGL 153	Literature and the Environment	3
HISTORY/ AMER IND 190	Introduction to American Indian History	3-4
GNS/ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3
ENVIR ST 239		3-4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
ENVIR ST/ RELIG ST 270	The Environment: Religion & Ethics	3-4
ENVIR ST/ ENGL 305	Rhetoric, Science, and Public Engagement	3
ENVIR ST/ AMER IND 306	Indigenous Peoples and the Environment	3
ENVIR ST 307	Literature of the Environment: Speaking for Nature	3
ENVIR ST 308	Outdoors For All: Inequities in Environmentalism	3
ENVIR ST 317	Community Environmental Scholars Program Seminar	1
ED POL 320	Climate Change, Sustainability, and Education	3
ENVIR ST/ HISTORY 328	Environmental History of Europe	3
F&W ECOL/ ZOOLOGY 335	Human/Animal Relationships: Biological and Philosophical Issues	3
GEOG/ ENVIR ST 337	Nature, Power and Society	3
ENVIR ST/ GEOG 339	Environmental Conservation	4
ENVIR ST/ AMER IND 341	Indigenous Environmental Communicators	3
ENVIR ST/ HIST SCI 353	History of Ecology	3
ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
LAND ARC 360	Earth Partnership Restoration Education: Indigenous Arts & Sciences	1
ENVIR ST/ HISTORY 369	Thinking through History with Animals	3-4
AMER IND/ GEOG 410	Critical Indigenous Ecological Knowledges	3

ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3	ENVIR ST/ GEOG 337	Nature, Power and Society	3
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4	BOTANY/GEOG 338	Environmental Biogeography	3
LSC/AMER IND 444	Native American Environmental Issues and the Media	3	ENVIR ST/ GEOG 339	Environmental Conservation	4
ENVIR ST/ SPANISH 445	Culture and the Environment in the Luso-Hispanic World	3	GEOG 344	Changing Landscapes of the American West	3
ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4	CNSR SCI 360	Sustainable and Socially Just Consumption	3
ENVIR ST/ HISTORY 465	Global Environmental History	3-4	LAND ARC 380	Plants for Ecological Design I	2
ENVIR ST/GEOG/ HISTORY 469	The Making of the American Landscape	4	LAND ARC 381	Plants for Ecological Design II	1
ANTHRO 477	Anthropology, Environment, and Development	3	F&W ECOL 410	Principles of Silviculture	3
ENVIR ST/ CLASSICS 488	Greeks, Romans and the Natural Environment	3	ECON/REAL EST/ URB R PL 420	Urban and Regional Economics	3
ENGL/ ENVIR ST 533	Topic in Literature and the Environment	3	SOIL SCI 430	Environmental Soil Contamination	3
ENVIR ST/ GEOG 537	Culture and Environment	4	ENVIR ST/C&E SOC/ GEOG 434	People, Wildlife and Landscapes	3
ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3	LSC/AMER IND 444	Native American Environmental Issues and the Media	3
BOTANY/ F&W ECOL/ ZOOLOGY 672	Historical Ecology	2	ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
<b>LAND USE</b>			F&W ECOL/ SOIL SCI 451	Environmental Biogeochemistry	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>	ENVIR ST/GEOG/ HISTORY 460	American Environmental History	4
ENVIR ST/ GEOSCI 106	Environmental Geology	3	LAND ARC/ URB R PL 463	Evolution of American Planning	3
ENVIR ST/ GEOG 120	Introduction to the Earth System	3	GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	3
ENVIR ST/GEOG 127	Physical Systems of the Environment	5	LAND ARC 511	Geodesign Methods and Applications	3
LAND ARC 211	Shaping the Built Environment	3	ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
ENVIR ST/GEOG/ SOIL SCI 230	Soil: Ecosystem and Resource	3	ENVIR ST/ GEOG 537	Culture and Environment	4
SOIL SCI 301	General Soil Science	3	GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
SOIL SCI 302	Meet Your Soil: Soil Analysis and Interpretation Laboratory	1	ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3
GEOG/ URB R PL 305	Introduction to the City	3-4	ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
A A E/ECON/ REAL EST/ URB R PL 306	The Real Estate Process	3	LAND ARC/ ENVIR ST 581	Prescribed Fire: Ecology and Implementation	3
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3	URB R PL 601	Site Planning	3
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2	ENVIR ST/BOTANY/ F&W ECOL/ ZOOLOGY 651	Conservation Biology	3
ENVIR ST/ SOIL SCI 324	Soils and Environmental Quality	3	LAND ARC 668	Restoration Ecology	3
ENVIR ST/ GEOG 333	Green Urbanism	3	LAND ARC 677	Cultural Resource Preservation and Landscape History	3
			ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3



**POLICY**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
URB R PL 215	Welcome to Your Urban Future	3
A A E/ENVIR ST 244	The Environment and the Global Economy	4
POLI SCI 272	Introduction to Public Policy	3-4
ENVIR ST/ ENGL 305	Rhetoric, Science, and Public Engagement	3
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
M H R 310	Challenges & Solutions in Business Sustainability	3
ENVIR ST/ GEOG 339	Environmental Conservation	4
ENVIR ST/A A E/ ECON 343	Environmental Economics	3-4
ENVIR ST/ AMER IND/ GEOG 345	Managing Nature in Native North America	3
ENVIR ST 349	Climate Change Governance	3
PUB AFFR 366	U.S. Environmental Politics and Public Policy	3
OTM 370	Sustainable Approaches to System Improvement	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
F&W ECOL 410	Principles of Silviculture	3
ENVIR ST 417	Sustainability Science, Technology and Policy	1
ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
LSC/AMER IND 444	Native American Environmental Issues and the Media	3
ENVIR ST/ ECON/POLI SCI/ URB R PL 449	Government and Natural Resources	3-4
M E 466	Air Pollution Effects, Measurements and Control	3
ENVIR ST/ F&W ECOL 515	Natural Resources Policy	3
CIV ENGR 522	Hazardous Waste Management	3
ENVIR ST/ PHILOS 523	Philosophical Problems of the Biological Sciences	3
ECON/A A E/ F&W ECOL 531	Natural Resource Economics	3
ENVIR ST/ GEOG 534	Environmental Governance: Markets, States and Nature	3
ENVIR ST/C&E SOC/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3

URB R PL 551	Climate Action Planning: Sustainable Transportation	3
ENVIR ST/ GEOG 557	Development and Environment in Southeast Asia	3
SOC/C&E SOC 573	Community Organization and Change	3
ENVIR ST 613	Reproducibility and Open Science in Ecological Research	3
SOIL SCI/ CIV ENGR/ M&ENVTOX 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
SOC/ECON 663	Population and Society	3
ENVIR ST/ URB R PL 668	Green Politics: Global Experience, American Prospects	3

**GEOSPATIAL ANALYSIS**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
LAND ARC 311	Introduction to Design Frameworks and Spatial Technologies	2
ENVIR ST/ F&W ECOL/G L E/ GEOG/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	3
GEOSCI/CIV ENGR/ ENVIR ST/G L E 444	Practical Applications of GPS Surveying	2
GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	3
LAND ARC 511	Geodesign Methods and Applications	3
ENVIR ST/GEOG/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	3
ENVIR ST/ LAND ARC/ SOIL SCI 695	Applications of Geographic Information Systems in Natural Resources	3

**WATER**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ATM OCN/ GEOSCI 105	Survey of Oceanography	3-4
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
CIV ENGR 311	Hydroscience	3
ENVIR ST/ ZOOLOGY 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology-Conservation of Aquatic Resources	2-3
CIV ENGR 320	Environmental Engineering	3
CIV ENGR 322	Environmental Engineering Processes	3

SOIL SCI 322	Physical Principles of Soil and Water Management	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
BSE 473	Water Management Systems	3
ENVIR ST/ ZOOLOGY 510	Ecology of Fishes	3
ENVIR ST/ ZOOLOGY 511	Ecology of Fishes Lab	2
G L E/GEOSCI 627	Hydrogeology	3-4
G L E/GEOSCI 629	Contaminant Hydrogeology	3

## MULTI-THEMATIC

Code	Title	Credits
ENVIR ST/ SOIL SCI 101	Forum on the Environment	1-2
ENVIR ST 202	Careers in the Environment	2
ENVIR ST 203	Special Topics in Environmental Studies	1-3
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
ENVIR ST 400	Special Topics in the Environment: Biological Aspects of Envir St	1-4
ENVIR ST 401	Special Topics: Environmental Perspectives in the Physical Sciences	1-4
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies	1-4
ENVIR ST 403	Special Topics in Environmental Studies	1-3
ENVIR ST 404	Special Topics in Environmental Humanities	1-3

Certificate students may enroll in a capstone course after the majors have enrolled, and the capstone course will be allowed to count in the thematic requirement. Junior standing is required for enrollment.

## PASS/FAIL COURSES

Courses taken on a pass/fail basis will not count toward the certificate.

Courses listed under more than one category in the curriculum may be used to satisfy only one category.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Explain the social and historical processes that impact our current environments. Interpret the meanings, values, and aesthetics that are created, shaped, and revealed as humans interact with and modify the environments they inhabit.

2. Explain ecological processes and fundamental principles of environmental sciences relating to humanity's key environmental challenges of the past, present, and future.
3. Analyze and respond to environmental questions by applying interdisciplinary approaches that integrate multiple perspectives, including those from a coordinate major.
4. Recognize through critical thinking a diversity of viewpoints, ethical commitments, and disciplinary approaches to environmental concerns across various scales from the local to the global.
5. Demonstrate excellent reading, writing, communication, and research skills, both individually and in interdisciplinary teams.

## ADVISING AND CAREERS

Environmental studies students are represented in majors across campus and in most undergraduate schools and colleges. Environmental studies certificate students should utilize the career office for their home school as appropriate. All students, not just Letters & Science students, can also benefit from SuccessWorks at the College of Letters & Science.

## PEOPLE

A complete list of faculty and staff affiliated with the Nelson Institute is available here. (<http://nelson.wisc.edu/people/>)

## SUSTAINABILITY, CERTIFICATE

## WHY CHOOSE A SUSTAINABILITY CERTIFICATE?

Perhaps the best reason for pursuing a sustainability certificate is a personal interest in learning practical skills to make a difference in the world—in your life, in your job, and in your community. Working toward a certificate offers students the opportunity to pursue interests that complement their major(s). For example, the interdisciplinary nature of sustainability encourages students to consider multiple perspectives. In doing so, this certificate provides a breadth of perspective highly applicable to complex problems, such as those we face in our communities, in our workplaces, and in our personal lives.

The Nelson Institute also offers a major and another certificate:

Environmental Studies Major (p. 723)  
Environmental Studies Certificate (p. 1444)

## HOW TO GET IN

## HOW TO DECLARE

Students interested in declaring the sustainability certificate can email [undergrad@nelson.wisc.edu](mailto:undergrad@nelson.wisc.edu) or request a declaration appointment. Information about declaring the certificate can be found at undergraduate advising (<https://nelson.wisc.edu/undergraduate/advising.php>).

Students who earn a sustainability certificate may **not** earn the environmental studies certificate or the certificate in engineering for energy sustainability.

## REQUIREMENTS

### REQUIREMENTS FOR THE CERTIFICATE

- A 2.00 GPA in all coursework that counts toward the certificate
- 12 credits of coursework, 3 credits from each of the four main categories below
- 1 credit in ENVIR ST 398 Independent Study: Sustainability Community Engagement for a sustainability-related community service project or 2 credits in ENVIR ST 317 Community Environmental Scholars Program Seminar
- Courses taken on a pass/fail basis will not count toward the certificate.

#### ENVIRONMENTAL DIMENSION

Code	Title	Credits
<b>Select minimum of 3 credits</b>		
ENVIR ST/ SOIL SCI 101	Forum on the Environment	1-2
ENVIR ST/ ATM OCN/ GEOSCI 102	Climate and Climate Change	3
ENVIR ST/ GEOSCI 106	Environmental Geology	3
ENVIR ST 117	GreenHouse Roots Seminar	1
ENVIR ST/ GEOG 120	Introduction to the Earth System	3
ENVIR ST/ILS 126	Principles of Environmental Science	4
ENVIR ST/GEOG 127	Physical Systems of the Environment	5
SOIL SCI/ ATM OCN 132	Earth's Water: Natural Science and Human Use	3
ENVIR ST/ ATM OCN 171	Global Change: Atmospheric Issues and Problems	2-3
ENVIR ST/ILS 255	Introduction to Sustainability Science	4
ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
CIV ENGR 311	Hydroscience	3
SOIL SCI 327	Environmental Monitoring and Soil Characterization for Earth's Critical Zone	4
ENVIR ST/ ATM OCN/ GEOG 332	Global Warming: Science and Impacts	3
ENVIR ST/ ATM OCN 355	Introduction to Air Quality	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3

#### SOCIAL DIMENSION

Code	Title	Credits
<b>Select minimum of 3 credits</b>		
ENVIR ST 112	Environmental Studies: Social Science Perspectives	3
ENVIR ST/ GEOG 139	Global Environmental Issues	3
C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	4
ENVIR ST/ ENTOM 205	Our Planet, Our Health	3
GNS/ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3
URB R PL 215	Welcome to Your Urban Future	3
C&E SOC/ F&W ECOL/ SOC 248	Environment, Natural Resources, and Society	3
GEOG/ ENVIR ST 337	Nature, Power and Society	3
ENVIR ST/ GEOG 339	Environmental Conservation	4
ENVIR ST 349	Climate Change Governance	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3
PUB AFFR 366	U.S. Environmental Politics and Public Policy	3
ECON 370	Economics of Poverty and Inequality	3
ENVIR ST/ GEOG 439	US Environmental Policy and Regulation	3-4
ENVIR ST/ PHILOS 441	Environmental Ethics	3-4
ENVIR ST/ GEOG 537	Culture and Environment	4
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC 541	Environmental Stewardship and Social Justice	3

#### ECONOMIC DIMENSION

Code	Title	Credits
<b>Select minimum of 3 credits</b>		
A A E/ENVIR ST 244	The Environment and the Global Economy	4
A A E 246	Climate Change Economics and Policy	3
M H R 310	Challenges & Solutions in Business Sustainability	3
A A E/ECON/ ENVIR ST 343	Environmental Economics	3-4
ECON 370	Economics of Poverty and Inequality	3
OTM 370	Sustainable Approaches to System Improvement	3
A A E/INTL ST 373	Globalization, Poverty and Development	3

CIV ENGR/G L E 421	Environmental Sustainability Engineering	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON/ F&W ECOL 531	Natural Resource Economics	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
REAL EST 651	Green - Sustainable Development	3

## SYSTEMS DIMENSION

Code	Title	Credits
<b>Select minimum of 3 credits</b>		<b>3</b>
ENVIR ST 326	Sustainability Tools: Systems Thinking & Life Cycle Assessment	3
AGRONOMY 375	Special Topics (Systems Thinking only)	1-4
ENVIR ST 402	Special Topics: Social Perspectives in Environmental Studies (Systems Thinking only)	1-4
CIV ENGR 494	Civil and Environmental Engineering Decision Making	3

## MULTIDIMENSIONAL AND CROSS-TOPICS COURSES

Code	Title	Credits
May use maximum of 3 credits to substitute for 3 credits from one of the four categories above; requires special permission		
LAND ARC 211	Shaping the Built Environment	3
HORT/PL PATH 261	Sustainable Turfgrass Use and Management	2
ED POL 320	Climate Change, Sustainability, and Education	3
ENVIR ST/ GEOG 333	Green Urbanism	3
ENVIR ST/BSE 367	Renewable Energy Systems	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ENVIR ST 417	Sustainability Science, Technology and Policy	1
DY SCI/ AGRONOMY 471	Food Production Systems and Sustainability	3
DY SCI/AN SCI/ FOOD SCI/ SOIL SCI 472	Animal Agriculture and Global Sustainable Development	1
CIV ENGR 495	Sustainable Building and Materials	3
URB R PL 551	Climate Action Planning: Sustainable Transportation	3
LAND ARC 563	Designing Sustainable and Resilient Regions	4

### EXCEPTIONS

Students can request to use a maximum of 3 credits from the "Multidimensional and Cross-Topics Courses" list to substitute for 3 credits from the economic, social or environmental category. Requests

can be granted to the extent that the student's proposed course portfolio still covers all four dimensions of the certificate's curriculum. Such a request requires that the student submits a written explanation how the substitute course meets the learning outcomes (<https://guide.wisc.edu/undergraduate/environmental-studies/environmental-studies/sustainability-certificate/#learningoutcomestext>) of the certificate and assists the student in reaching his or her individual goals for taking the certificate. Please also submit a syllabus of the substitute class. All substitution requests require approval.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Students will be able to identify, critically analyze, and propose solutions to the environmental, social, and economic dimensions of sustainability.
2. Students will be able to engage in systems thinking and practice so as to address the interrelationships among the three dimensions of sustainability.
3. Students will develop the capacity for an engaged life in which theory, practice, and reflection are integrated in the pursuit of a more sustainable world.

## ADVISING AND CAREERS

Nelson Institute students are represented in majors across campus and in most undergraduate schools and colleges. Sustainability certificate students should utilize the career office for their home school as appropriate. All students, not just Letters & Science students, can also benefit from SuccessWorks at the College of Letters & Science.

## PEOPLE

A complete list of faculty and staff affiliated with the Nelson Institute is available here. (<http://nelson.wisc.edu/people/>)

## SCHOOL OF BUSINESS

The School of Business (<https://business.wisc.edu/>) attracts talented, energetic, creative students who are known for their strong work ethic and technical capabilities. Students in the School of Business Undergraduate Program ([https://business.wisc.edu/undergraduate/?\\_ga=1.242357250.1617918104.1481300313](https://business.wisc.edu/undergraduate/?_ga=1.242357250.1617918104.1481300313)) experience innovative coursework directed by leading scholars in business. They have opportunities to connect with outstanding alumni for applied learning, mentoring, and general life-experience lessons. Students also enjoy access to an unlimited array of activities, clubs, and life-changing opportunities.

In 1900, UW-Madison established one of the first six commerce programs in the country, beginning as a department in the College of Letters & Science, and receiving separate school status by a 1944 act of the Wisconsin Legislature. The School of Business was a founding

member of Beta Gamma Sigma (<https://www.betagammasigma.org/home/>), a national professional business honor society and the Association to Advance Collegiate Schools of Business (AACSB) (<http://www.aacsb.edu/>), the standard-setting organization for collegiate business education. The School's undergraduate and graduate programs were reaccredited by the AACSB in 2017.

## EXPERIENCE A HIGH-CALIBER UNDERGRADUATE BUSINESS EDUCATION

The University of Wisconsin–Madison is a world-class university, nationally and internationally recognized for academic excellence, incredible students, and inspiring faculty. As a student in the undergraduate business program, you will have access to the academic and co-curricular resources of the entire university, combined with the personalized experience of being a Business Badger. It's like having the best of both worlds.

The curriculum for the WSB Undergraduate Program incorporates a foundation in the liberal arts with a business education, including focused coursework in eleven majors. The liberal arts foundation—including courses taken outside of the School of Business—develops your skills in thinking critically, analyzing problems, generating creative solutions, communicating effectively, and working in diverse teams. These are all skills top employers seek when filling positions with strong potential for advancement.

Eleven undergraduate business majors are offered, giving you the specialized knowledge you need to begin a great career. You will graduate with skills gained from top-notch faculty and real-world learning experiences. It all adds up to an educational experience that prepares you for career success and to be a trusted leader. The School of Business offers many certificate options. There are also opportunities for further education through our graduate, master's, and doctoral programs.

## THE BUSINESS BADGER EXPERIENCE

The **Wisconsin Business Badger Experience** is about creating strong foundations and exploring student passions. Business Badgers take part in core experiences and amazing opportunities on their path toward graduation. All our Business Badgers gain academic preparation that applies learning in and out of the classroom building both technical knowledge rooted in business school courses and a broad-based liberal arts education. Our career preparation builds skills that don't just get students a first job, but build a life-long growth mindset. We staff our own Student Life office which supports over 40 student organizations that are integrated into our leadership framework and corporate partners. Our students develop a leadership style that is grounded in personal integrity, inclusive engagement, and community. Nearly all of our students participate in at least one internship and 40% of our students study abroad. These experiences help students develop intercultural competence that prepare them to be trusted global business leaders. Our network of School of Business Alumni is 40,000 strong—and growing—and fiercely loyal to our students. As students build their Business Badger Experience they are challenged and supported by a team of outstanding faculty and staff.

## THE ACCENTURE LEADERSHIP CENTER

The Accenture Leadership Center (<https://business.wisc.edu/undergraduate/leadership/>) (ALC) was one of the first in-house leadership centers at a US business school. Today, it continues to be

student-driven and alumni-supported. The center offers a variety of activities, workshops, service opportunities and leadership training events. WSB undergraduate students graduate with the confidence, self-awareness, and professional skills to lead and inspire others.

## SCHOOL OF BUSINESS CLUBS

There are more than 40 student-run clubs associated with the School of Business. These clubs enable students to connect with peers interested in similar majors or career fields. Clubs also have access to funding to help them go to career and industry-related conferences.

## PERSONAL AND PROFESSIONAL FOUNDATIONS IN BUSINESS (GENERAL BUSINESS 110)

Every student admitted to the School of Business takes GEN BUS 110 Personal and Professional Foundations in Business. This 1-credit course helps students explore their leadership style, who they are as individuals, and how they function in team-orientated tasks. The course also provides career foundations such as resume building and introduction of networking at career fairs.

## BUSINESS BADGER BADGES: LEADERSHIP PATHWAYS TO SUCCESS

The Business Badger Badge (<https://business.wisc.edu/undergraduate/leadership/badges/>) program is a customizable co-curricular leadership program that combines workshops, experiences, and reflection opportunities designed to provide a deeper level of understanding and practice with certain skills/competencies. By completing specific criteria for each badge, students can earn digital achievements, which serve as credentials that can be showcased via personal profile, social media, and shared with potential employers as a way to help articulate skills gained from completing a badge. The badges available to earn are Personal Leadership Styles, Group Dynamics, Inclusive Leadership, Leading for Change, and Leadership at Lambeau. Each Badge has specific learning outcomes and criteria. Additionally, we've collaborated with the campus leadership office to make sure our program is integrated into the campus leadership certificate as well!

## DEGREES/MAJORS/CERTIFICATES

## MAJORS, SPECIALIZATIONS, CERTIFICATES, AND OTHER PROGRAMS

- Accounting, Certificate (p. 1468)
- Business Administration: Human Resources, BBA (p. 1498)
- Business Administration: Management, BBA (p. 1501)
- Business Administration: Marketing, BBA (p. 1519)
- Business Fundamentals, Summer Certificate (p. 1474)
- Business, Certificate (p. 1475)
- Business: Accounting, BBA (p. 1469)
- Business: Actuarial Science, BBA (p. 1537)
- Business: Entrepreneurship, BBA (p. 1504)
- Business: Finance, Investment, and Banking, BBA (p. 1478)
- Business: Human Resource Management, BBA (p. 1504)
- Business: Information Systems, BBA (p. 1525)
- Business: International Business, BBA (p. 1482)

- Business: Management and Human Resources, BBA (p. 1505)
- Business: Management, BBA (p. 1516)
- Business: Marketing, BBA (p. 1522)
- Business: Operations and Technology Management, BBA (p. 1527)
- Business: Real Estate and Urban Land Economics, BBA (p. 1534)
- Business: Risk Management and Insurance, BBA (p. 1540)
- Business: Supply Chain Management, BBA (p. 1531)
- Consulting, Certificate (p. 1476)
- Entrepreneurship, Certificate (p. 1517)
- International Business, Certificate (p. 1477)

## PEOPLE

**For a complete listing of School of Business Undergraduate Program staff, please visit our** directory (<https://business.wisc.edu/undergraduate/contact/>).

## ENTERING THE SCHOOL

### A STUDENT-CENTERED ADMISSIONS PROCESS

The School of Business boasts a student body that is focused and engaged. Our highly talented undergraduate students, in turn, attract recruiting employers who return to Wisconsin year after year to fill internships and full-time positions.

Although admission to the Wisconsin Undergraduate Business Program is selective, we provide a variety of informational and workshop events to help you prepare for the admissions process.

Students may apply and enroll into the residential Undergraduate Business Program through the following pathways:

- Prospective high school students may be considered for Direct Admission to Business based on their application to the University of Wisconsin-Madison. Simply list a Business interest as your top academic area of interest on the University application.
- Current University of Wisconsin-Madison students can participate in a series of preparatory workshops and apply through the spring-term pre-business admissions process.
- Transfer students at University of Wisconsin System campuses or Wisconsin Technical Colleges may apply separately for admission to both the University of Wisconsin-Madison and the School of Business during the spring term for fall enrollment.

Once a student knows they have a Business interest, earlier enrollment in the Undergraduate Business Program is encouraged to maximize the use of resources like advising, career coaching, co-curricular engagement, and other enriching opportunities. The right choice for you depends on your current goals and where you are in your journey to becoming a Business Badger. Prospective/pre-business applicants are encouraged to familiarize themselves with the admissions eligibility policies listed on the Wisconsin BBA Admissions Policies (<https://business.wisc.edu/undergraduate/admissions/pre-business-policies/>) page.

For more information about these options, including directions for navigating the admissions processes and tips for submitting a competitive

application, please visit the Wisconsin BBA Program website (<https://business.wisc.edu/undergraduate/admissions/>).

Transfer applicants (<https://business.wisc.edu/undergraduate/admissions/transfer-students/>) should visit the School of Business website to determine which process fits their situation.

*Questions along the way? We're here to help. Reach out to a Wisconsin BBA Student Ambassador (<https://business.wisc.edu/undergraduate/contact/ambassadors/>) or contact the School of Business Undergraduate Program Office (<https://business.wisc.edu/undergraduate/contact/>) at 608-890-2490.*

## BUSINESS ONLINE UNDERGRADUATE PROGRAMS

Students applying to a School of Business Online Undergraduate Program apply through UW-Madison Online (<https://online.wisc.edu/>). Students who have earned 12 or more college credits are eligible to apply. For more information, visit the UW-Madison Online admissions website (<https://online.wisc.edu/apply/>) or email a UW-Madison Online enrollment coach ([uwmadisononline@wisc.edu](mailto:uwmadisononline@wisc.edu)). They are here to help you navigate the application process.

## WISCONSIN EXPERIENCE

### INTEGRATE CLASSROOM LEARNING WITH DIRECT EXPERIENCE

School of Business Undergraduate students are expected to apply learning inside and outside the traditional classroom in ways that have a positive impact on the world. Known as the Wisconsin Experience, this principle draws upon opportunities ranging from conducting research to embracing entrepreneurship to developing multicultural competence (<https://business.wisc.edu/undergraduate/diversity-inclusion/>), on campus or through study abroad programs (<https://business.wisc.edu/undergraduate/study-abroad/>). By applying classroom learning in leadership programs (<https://business.wisc.edu/undergraduate/leadership/>) or student organizations (<https://business.wisc.edu/undergraduate/student-organizations/>), you will build your résumé and gain practical experience in using your business skills.

## POLICIES AND REGULATIONS

### RESIDENTIAL PROGRAM

School of Business students are responsible for being familiar with the policies that affect them. School of Business policy is subject to change, so be sure to review this website for the most up-to-date information. Questions related to policy interpretation can be directed to your academic advisor for clarification. Please note that pre-business students are subject to the academic policies and procedures of their current school/college. **In addition to the academic-related policies below, we strongly encourage prospective/pre-business applicants to review all admission policies listed on the Wisconsin BBA Admission Policies (<https://business.wisc.edu/undergraduate/admissions/pre-business-policies/>) page.**

## COURSES/ENROLLMENT

### Business Credit Limit

Undergraduate students may not take more than 75 credits of School of Business courses.

### 10-semester rule (reentry and transfer)

*Students re-entering after an absence of 10 or more semesters:*

A pre-business student seeking admission to the School of Business is responsible for completing all of the current School of Business admission and degree requirements that are in effect at the time of re-entry to UW-Madison.

A business student reentering UW-Madison is responsible for completing all the current School of Business degree requirements that are in effect at the time of reentry to UW-Madison and the School of Business. Students who left the institution as a business student do not need to reapply for admission to the School of Business when they return.

*Transfer Students seeking admission to the School of Business:*

A transfer student whose first college entry date is ten or more semesters prior to UW-Madison matriculation must complete all of the current School of Business requirements that are in effect at the time of UW-Madison matriculation.

A transfer student whose first college entry date is less than ten semesters prior to UW-Madison matriculation must complete all School of Business requirements that were in effect at the time of the student's first college matriculation date.

### Graduation

The School of Business will graduate a student at the end of the semester (spring, summer or fall) in which all university, BBA degree and business major requirements are complete and have a cumulative GPA of 2.00 or higher. Students cannot graduate with a temporary grade (<https://registrar.wisc.edu/valid-grades/>), such as I or NR, for any requirements. Speak with the course instructor or your advisor to resolve temporary grades. The date when the outstanding Incompletes (I) are resolved will determine the semester of graduation.

If a student is completing their final coursework while not in residence, the student must notify the School of Business Undergraduate Program's Advising Office when the official transcript has been evaluated by UW-Madison and appears on their record. This allows their DARS to be certified for graduation.

Graduation will not be postponed for any incomplete School of Business certificate(s), specialization(s); or additional certificate(s) or major(s) outside the School of Business.

It is the student's responsibility to ensure that graduation requirements have been met. All students should regularly consult their DARS (Degree Audit Reporting System) document in conjunction with their advisor to ensure that all graduation requirements have been met.

### Student responsibility for enrollment

Each student is responsible for arranging a course list that will permit satisfactory progress toward degree requirements and a class schedule that (a) avoids class and final exam scheduling conflicts, (b) avoids an excessively demanding final exam schedule, and (c) verifies registration in chosen classes.

The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection

options such as pass/fail and audit. Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc.

Students are strongly encouraged to consult with an academic advisor prior to initial enrollment and before making any changes to enrollment.

### No-Credit Courses

The School of Business does not award credit for the following:

- Failed courses (grade of "F")
- Repeated courses (except where a repeat is allowed)
- Courses for which a student may not receive credit because of a previously completed course (as indicated in the Course Search & Enroll App)

Being enrolled in any of the above courses could impact a prebusiness student's application to the School of Business. Before enrolling in and taking any of the above courses, please consult your academic advisor.

### Part-time Enrollment

To maintain full-time standing, students must be enrolled in 12-18 credits.

Undergraduate students who are considering dropping below full time (less than 12 credits) are responsible for knowing how part-time status will affect them. Below are some of the more common scenarios to explore before dropping credits:

#### International Students:

Dropping below full time as an international student can have serious consequences, up to and including deportation. Please be sure to check with the International Student Services Office before dropping below 12 credits.

#### Scholarships, Grants, and Other Awards:

Depending on the conditions of the scholarship, a student may be required to be full time in order to remain eligible for an award. Be sure to check the stipulations for any awards you have received.

#### Financial Aid:

Be sure to check with the Office of Student Financial Aid to find out if being part time will affect your financial aid package.

#### Tuition Refunds:

Depending on when the credits are dropped, you may be eligible for a tuition refund. Check the registrar's website for information about refund deadlines.

#### Athletes:

Varsity athletes are governed by Big Ten and NCAA rules that do not allow them to drop below full time. Be sure to check with your coach and athletic advisor before dropping below 12 credits.

#### Degree Completion:

Taking fewer credits or courses than anticipated may delay your graduation. Be certain that if you drop a course, you will still be able to complete all required courses within your desired timeline. If you are not sure, please see your academic advisor.

### Pass/Fail

Undergraduate business students who are in good academic standing (i.e., not on probation) may take only one (1) course as pass/fail per semester

including the summer session. A maximum of 16 total credits may be completed as pass/fail to count toward completion of the 120 degree credits required for the BBA.

The pass/fail privilege is for a non-business elective course. The following courses cannot be taken pass/fail:

- Any business courses including those designated as "meets with," "cross-listed," and business courses taken during study abroad programs
- Any requirement for the business major or degree, including, but not limited to, pre-business and liberal studies requirements

It is the responsibility of the student to check requirements and policies for non-business majors and certificates prior to requesting the pass/fail privilege.

The pass/fail grade will not be included when computing your GPA, but the pass/fail credits with S (Satisfactory) grades will apply toward graduation. S is the grade for A to C; U (Unsatisfactory) is the grade for D and F.

Students must complete a minimum of 12 graded credits each semester in order to be eligible for the dean's list.

In order to apply for the pass/fail privilege, students must submit an online request (<https://kb.wisc.edu/7700/>) via Student Center. Please disregard the message that says "Reminder - print this form and obtain appropriate signatures." You do not need to do this.

Your request is then sent directly to the School of Business Undergraduate Program. You will be notified by email whether or not your request has been approved.

Please complete the online pass/fail form by the deadline. See the Office of the Registrar website (<https://registrar.wisc.edu/dates/>) for deadline information.

Once the student has submitted the form, the course may not be changed from pass/fail back to a conventionally graded course after the established deadline. Once a pass/fail grade is recorded as S or U, it cannot be changed to a letter grade.

### Auditing a Course

Auditing a course allows a student to take a class without the benefit of a grade or credit for a course.

A student who wishes to audit a course is expected to attend classes on a regular basis as an observer. Auditors do not take exams. Auditors will receive a final grade of Satisfactory (S) or No Report (NR), and AU will appear in place of a number of credits. Audit courses carry no academic credit and do not satisfy any degree or major requirements. Also audit courses do not satisfy any minimum or maximum credits required in each term. Students interested in auditing a course should consult with their academic advisor.

Audits are not free. A course taken for audit costs the same as a course taken for credit. If students are not paying full-time fees, they will be assessed per-credit fees for an audit course.

Information about submitting a formal request to audit a class can be found at the course change request on the Registrar's Office website. The course is offered only on a space available basis with approvals of both the instructor of the course and the Academic Dean's Office in the School of Business.

### Repeating a Course

Students thinking about repeating a course should talk with their advisor. Students must do all the work in the repeated course, including laboratory;

attend regularly; participate in class discussions; and take examinations. Students will earn a final grade in the course. The transcript denotes repeated courses with a lowercase 'x' appearing immediately before the course description. Students should know that:

- the original grade still counts in GPA and remains on the transcript;
- credits in the repeated course do not count toward the degree, unless the course was failed the first time;
- grade points in the repeated course count toward calculation of cumulative GPA;
- credits carried on courses being repeated count toward the maximum credits permitted in a semester.

Transfer students must be particularly careful to avoid taking courses on the UW-Madison campus that duplicate courses taken at another school. Credit will not be given twice for the same or similar courses, nor will credit be given for a lower-level course in a sequence if students have already received credit for a higher-level course in that sequence. Students should carefully check the Evaluation of Transfer Credits prepared by Credit Evaluation Services and should consult with their advisor. Duplicate courses may include transfer credits and credit by exam, such as Advanced Placement, coming in as course equivalents.

### Residency for Degree

Students admitted to the School of Business Undergraduate Program, including students who transfer from another college or university, must complete a minimum of 30 credits in business courses in residence.

### Withdrawal

Withdrawal indicates that a student intends to stop attending all classes for the current term/semester. If a student wishes to drop all of their classes for a particular semester/term after the first day of classes, a student needs to formally withdraw from the semester by submitting the online withdrawal request in the MyUW Student Center. Failure to do so may result in a recording of Failure for all courses and a "may not continue" action. Any student may withdraw with permission and without grades being recorded at any time up to the last three weeks of a fall or spring semester. Students should refer to the enrollment dates and deadlines (<https://registrar.wisc.edu/dates/>) provided by the Office of the Registrar if they are enrolled in summer term and wish to withdraw. The Office of the Registrar provides additional information regarding withdrawal (<https://registrar.wisc.edu/withdraw/>), including impacts of withdrawal.

**Medical Withdrawal:** For information on medical withdrawals, students should refer to the Medical Withdrawal (<https://policy.wisc.edu/library/UW-1084/>) policy.

In addition to entering a request for medical withdrawal in the MyUW Student Center, Business students will need to submit the Petition for Special Consideration form. ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.152083449.1715547210.1624291160-630380142.1620053901](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.152083449.1715547210.1624291160-630380142.1620053901)) A staff member from the Academic Dean's Office will be in contact with you following the submission. Medical withdrawals are approved on a case-by-case basis, and medical documentation will be required.

### Courses scheduled for fewer than 15 weeks

Deadlines for sessions and modular courses (<https://registrar.wisc.edu/modular/>) are listed on the Office of the Registrar's website.

### Credit Overload

To obtain special permission for a credit overload, students need to submit a petition for special consideration (<https://>



buswisc.qualtrics.com/jfe/form/SV\_3a4CkoBg7BQhXRr/?\_ga=2.5642675.1034170563.1614009576-1842162041.1564425520) and demonstrate that special circumstances are involved.

Students who wish to take more than 18 credits during the fall or spring semester must have earned a minimum of 3.000 cumulative GPA on the UW-Madison campus. Students will not be permitted to carry more than 20 total credits during the fall or spring semester.

Students can take a maximum of 12 credits during the summer session. Please note that there are credit limits by session as well. Students may enroll for one credit per week of instruction (e.g.: a student can earn 3 credits during a 3-week session, but needs approval to earn 4 credits in a 3-week session). Students who are seeking a credit overload for the summer session must have earned a minimum of 3.000 cumulative GPA on the UW-Madison campus. Students will not be permitted to carry more than 13 total credits during the summer session.

Credit overloads will incur additional tuition costs. Visit Tuition & Fees (<https://bursar.wisc.edu/tuition-and-fees/>) for more information.

## FIRST-YEAR REQUIREMENTS (FRESHMAN DIRECT ADMIT STUDENTS ONLY)

### Academic progression requirements & policies

To progress in the School of Business Undergraduate Program after direct admission, students must complete the following requirements by the end of their first year at UW-Madison:

1. Students must complete a minimum of 24 degree credits in residence.
2. Students must complete the following requirements through successful completion of a course, placement test, transfer credit or test credit:
  - a. *Communication Part A (complete one), preferably:*
    - ENGL 100 Introduction to College Composition (3 cr)
    - COM ARTS 100 Introduction to Speech Composition (3 cr)
    - ESL 118 Academic Writing II (3 cr), non-native English speakers only
  - b. *Calculus (complete one):*
    - MATH 211 Calculus (5 cr)
    - MATH 217 Calculus with Algebra and Trigonometry II (5 cr) (must complete MATH 171 first)
    - MATH 221 Calculus and Analytic Geometry I (5 cr)
  - c. *Economics (complete one):*
    - ECON 101 Principles of Microeconomics (4 cr)
    - ECON 111 Principles of Economics-Accelerated Treatment (4 cr, Honors course)
  - d. *Psychology*
    - PSYCH 202 Introduction to Psychology (3 cr)
  - e. *Business course for first-year students*
    - GEN BUS 110 Personal and Professional Foundations in Business (1 cr)

### Monitoring and communication after fall semester

First-year progression progress will be monitored after the fall semester. Students will receive an email notification after the fall term informing them whether or not they are on track to meet the progression requirements by the end of their first year.

### Action for students who did not meet the First-Year Progression Requirements

Students who do not meet progression requirements after the first year will receive an enrollment hold. To remove the enrollment hold, students must meet with their academic advisor in the Undergraduate Program and create a progression plan.

## EXAMS

### Finals

#### General Info/Schedule:

Final exam times are automatically assigned for both fall and spring semesters. Final exam times can be found in MyUW.

#### Make-Up Final Exams:

Make-up exams may not consist of more than 10% of the total number of students enrolled. If an instructor needs to give a make-up to more than 10% of students enrolled, they must obtain the dean's written approval.

#### Student Conflicts:

Students should attempt to avoid having more than two exams within 24 hours. If a student has more than two exams in 24 hours, the instructor may—but is not required to—offer a make-up final exam or allowable alternative. However, if a student has two exams at the same time and date, one instructor must offer a make-up final exam or allowable alternative.

### Midterms

Midterm exams can occur throughout the term and may take place outside of the regularly scheduled class time. More information on the campus policy for evening midterm exams can be found here (<https://policy.wisc.edu/library/UW-879/>).

## GRADES

### Academic Probation

Students admitted to the School of Business must maintain all of the following GPA minimums:

- 2.00 cumulative GPA on all UW-Madison coursework
- 2.00 semester GPA for each semester (including summer term)

Students who do not meet these GPA minimums will be assigned an academic action (see below for list of actions) based on:

1. The student's most recent academic action from a prior term
2. The student's cumulative GPA (including the current term)
3. The student's term GPA for the semester just completed

A student will be cleared of probationary status at the end of the semester when all of the above conditions are met and the student's record contains no grade of incomplete.

### Probationary actions

Students will be notified via email of the requirements they must complete as part of their probationary status.

**Probation:** A student who has a prior academic action of *Good Academic Standing* or who has no prior academic action and who achieves a cumulative or term GPA between 1.0 and 2.0 will be placed on probation.

**Continued Probation:** A student on Probation whose cumulative GPA remains below 2.0 and whose term GPA for the term just completed is 2.0 or above will be placed on continued probation.

**Strict Probation:** A student can be placed on *Strict Probation* when they either:

1. Have a prior academic action of *Good Academic Standing* and achieve a term GPA of less than 1.0 in the semester just completed.
2. Have a prior academic action of *Probation* and achieve a term GPA of less than a 2.0 in the semester just completed

**Continued Strict Probation:** A student on *Strict Probation* whose cumulative GPA remains less than a 2.0 but whose term GPA for the term just completed is 2.0 or above will be placed on *Continued Strict Probation*.

**Dropped for one semester (Academic Suspension):** A student on *Strict Probation* or *Continued Strict Probation* who earns a term GPA for the term just completed less than 2.0.

Students have the opportunity to appeal the "dropped for one term" status by participating in an appeals process. The School of Business' Academic Dean's Office will notify students by email of the appeals process and timeline.

Students who were dropped for one term may reapply on probationary status (after a one-semester hiatus) if they can demonstrate the ability and desire to devote sufficient energy to scholastic work. To reapply, students may complete a reentry application (<https://admissions.wisc.edu/apply-as-a-reentry-student/>) through the Office of Admissions and Recruitment.

GPA deficiencies causing probationary status cannot be removed through coursework at another university or through correspondence study.

### Dean's List

Business students who achieve a grade point average of 3.75 for any semester in which they complete 12 graded degree credits will have their names on the dean's list. A permanent record of this achievement is entered on the student's transcript. Students with I, P, or U on their grade report will automatically be ineligible for the dean's list. Subsequent academic action may change eligibility.

### Grading Policy

The mean grade should be no higher than 3.0 in the following undergraduate classes:

ACCT 1S 100 Introductory Financial Accounting, GEN BUS 301 Business Law, ACCT 1S 211 Introductory Managerial Accounting, FINANCE/ECON 300 Introduction to Finance, MARKETNG 300 Marketing Management, M H R 300 Managing Organizations, OTM 300 Operations Management, R M I 300 Principles of Risk Management

For all other undergraduate courses with class numbers below 600 and 15 or more students enrolled, the mean grade should be no higher than 3.3 and the maximum percentage of As is 30%.

### Graduating with Distinction

The Office of the Registrar compiles a preliminary list of business students eligible for distinction. These students are eligible to wear an honors stole with their commencement attire. The School of Business Undergraduate Program will notify eligible students via email 2-3 weeks before the commencement ceremony.

Distinction is awarded to graduated business students who meet the following criteria:

- At least sixty (60) credits earned (in residence) at UW-Madison
- A cumulative UW-Madison GPA in the top twenty percent (20%) of the graduating business class

Please note that students on the preliminary list for distinction may or may not receive distinction. The distinction designation is subject to change and is dependent upon official graduation date (semester), number of students graduating, and final grade calculations, including last semester and in-progress courses.

Students who graduate with distinction are eligible to wear a cardinal stole with their commencement attire. The stoles can be obtained from the University Bookstore with a deposit and do not need to be ordered in advance. More information on graduation attire can be found on the site of the Secretary of the Faculty.

"Graduated with Distinction" is notated on official transcripts only.

### Incomplete Policy

An incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond his/her control, has been unable to take or complete the final examination or to complete some limited amount of term work. An incomplete is not given to a student who stays away from a final examination unless the student proves to the instructor that he or she was prevented from attending as indicated above. In the absence of such proof, the grade shall be F; even with such proof, if his/her work has convinced the instructor that he/she cannot pass, the grade shall be F.

If an admitted business student earns an incomplete, the work for that course must be completed by the last class day of the student's next semester in residence (exclusive of summer sessions). Incompletes incurred in the last semester of residence may not be removed after five years of absence from the university without special advance permission of the associate dean. Such incompletes must remain on the record with grades of PI and do not lapse into failures.

Probationary status will be applied, when applicable, to business students with an incomplete. The academic action will be based on their GPA without the course that has an incomplete. This is a temporary action that could change once the incomplete is resolved. Please see the "Academic Probation" section for further information on the policy and GPA minimums.

If a student is graduating and has an incomplete in the term they wish to graduate, they will need to complete the work before their degree can be awarded. Finishing up work for an incomplete after the term/semester means that a student will be awarded their degree at the next official graduation date.

## MAJOR DECLARATION

### Additional major outside of business

Business students may declare **one** additional major outside the School of Business in the College of Letters & Science (excluding AMEP, Journalism, Landscape Architecture, Social Work, Music: Education B.M., and Music: Performance: B.M.), School of Education (options include: Educational Policy Studies, Health Promotion and Health Equity or Theater & Drama), or College of Agricultural and Life Sciences (only including Global Health). Students who gain approval to complete an additional major in the College of Letters & Science, the School of Education, or the College of Agricultural and Life Sciences must complete major requirements prior to, or concurrently with, their business degree. Students who have fulfilled the degree requirements for the BBA will be graduated, even if the additional major outside the School of Business had not been completed.

**To declare a second major:**

Students will need to meet with the advisor of their additional major, and the advisor will fill out and submit an additional major declaration form on their behalf. This will be sent to the School of Business Undergraduate Program for approval.

Meet regularly with your School of Business academic advisor and additional major advisor regarding major and/or degree requirements.

#### To cancel a second major:

Students interested in cancelling their additional major will need to make this request through their additional major advisor or department.

### School of Business Major

Direct admit business students will declare their business major at SOAR, and business students admitted through the prebusiness process will be declared in their selected business major at time of acceptance into the School. Students can indicate that they are exploring in business at that time. Business students may update their major plan (can declare or cancel any of the business majors offered) by completing the major declaration form (<https://bus.wisc.edu/current-student-resources/bba/academic-support-resources/forms/>).

Students interested in declaring a certificate offered through the School of Business should follow the procedures outlined on the Certificates page for the appropriate program.

## COURSES AT OTHER INSTITUTIONS

### Common Guidance for Off-Campus Coursework

School of Business undergraduate students are advised to take no more than two courses in their major (or per major if pursuing multiple majors) off-campus. This guidance includes courses taken for transfer credit at another accredited institution as well as courses taken on a School of Business or UW-Madison-sponsored study abroad program. The academic departments of the School of Business strongly recommend that all BBA students complete the core or initial course in their major(s) on campus.

While School of Business undergraduate students are able to take courses off-campus, the School of Business Undergraduate Program reminds students that they should plan to complete all prerequisites for any off-campus course, regardless of its place in the BBA curriculum, prior to taking the course off-campus. Attention to these prerequisites is crucial to ensuring School of Business undergraduate students are prepared for their coursework whether it is taken on or off campus. Advance academic planning is an integral part of a student's success and ability to remain on track to graduate. Students are strongly encouraged to share with their advisor if they plan to enroll in course work off-campus at any time once they are a UW-Madison student. Advisors assist students in making decisions regarding enrollment in off-campus course work and share resources with students to ensure that courses will transfer to UW-Madison for degree credit and satisfy the requirement(s) they expect. While students are always encouraged to share this information with their advisor, students are required to gain permission to take courses off-campus in certain circumstances.

### Concurrent Enrollment

School of Business students are not allowed to enroll concurrently at other accredited post-secondary institutions during any term in which they are enrolled at UW-Madison (fall, spring) without seeking special permission via the Petition for Special Consideration (<https://business.wisc.edu/undergraduate/academic-advising/>). This includes enrollment in online, distance education, and physical attendance classes (exceptions may be made for UW-Extension/Independent Learning—see below).

Students are permitted to enroll in more than one university during the summer session. However, please be aware that if you are taking a course at another university that begins in the summer and coincides with the fall and/or spring semester, it will fall into this category of concurrent enrollment, regardless of when the course will be completed.

If students are taking a course at another institution of higher learning over UW-Madison's winter break, they do not need to seek permission for concurrent enrollment if the course does not overlap UW-Madison's spring term or if the overlap is two weeks or less. Please note that students may take no more than one course off-campus during winter recess.

If it is discovered that a student violated this policy, this credit will be removed from the student's record. It is the responsibility of the student to verify with their academic advisor that they are not in violation of this policy.

### Independent Learning

**UW Independent Learning** (UW IL) is a branch of UW Extension that offers online and distance learning courses. Courses taken through UW Independent Learning are considered **concurrent enrollment** and require special permission to enroll in the fall, spring or summer.

Students interested in taking a course through UW IL should meet with an academic advisor. If the advisor and student agree this is a good option the student should follow these steps to request permission for concurrent enrollment and request a tuition waiver (if applicable). Forms should be returned to 3150 Grainger.

- Fill out a **Petition/Special Consideration Request** requesting permission for concurrent enrollment with UW Independent Learning. Be sure to include which class you intend to take.
- Students with full time status at UW-Madison may request a **tuition waiver** for UW Extension Independent Learning Courses provided that the following conditions are met:
  - The student requests the waiver and enrolls in the course by the UW-Madison add deadline (second Friday of the semester).
  - The course is taken during the regular academic session.
  - The course is completed during the term for which the tuition waiver is requested.
  - The student does not exceed 18 credits total between the two campuses.

Students are responsible for the \$75 administrative fee for enrolling in a UW IL course.

The minimum length of time to complete an IL course is typically three months. Foreign language courses often require more time. Students should take this into consideration as they are planning the completion of their degree.

### Transfer Credits

UW-Madison students may choose to take courses off campus during the summer or winter session and potentially transfer credit to UW-Madison. The UW-Madison Office of the Registrar handles transfer course equivalencies. Please note that UW-Madison students may not take courses at another institution during the fall or spring semester if they are concurrently taking courses at UW-Madison (see **concurrent enrollment policy**). Students may take no more than one course off-campus during winter recess. Students interested in earning transfer credit for a **non-UW study abroad program** must work with UW-Madison's International Academic Programs well in advance.

It is highly recommended that students do not take a course unless they know in advance that it will transfer to UW–Madison for credit. The Office of the Registrar provides information regarding how to determine course equivalencies (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>).

### Transfer Credit Process

- Review your DARS report and consult your academic advisor to see what you still need to take and whether the course(s) would be a good option to take at another institution over the summer or winter session. It is not advised to take your business major courses off campus.
- Research course options at the institution where you plan on taking the course(s).
- Determine equivalency using Office of the Registrar course equivalency resources (<https://registrar.wisc.edu/course-equivalency-service/>), beginning with Transferology (<https://www.transferology.com/state/wisconsin.htm>).
- Apply as a “special” or “guest” student at the institution you plan on attending.
- Enroll in the course and pay tuition directly to the institution you are attending.
- After the course is complete, have the institution send an official transcript to the UW–Madison Office of Admissions and Recruitment at 702 West Johnson Street, Suite 1101, Madison, WI 53715-1007 or [etranscripts@admissions.wisc.edu](mailto:etranscripts@admissions.wisc.edu).

## APPEAL

### Academic Policy or Requirement Appeal

If an undergraduate business student wishes to request an exception to a School of Business academic policy or regulation, or a degree or major requirement, they should start by consulting with their academic advisor. They then will need to formally submit their request using the Petition for Special Consideration ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.2520624.1034170563.1614009576-1842162041.1564425520](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.2520624.1034170563.1614009576-1842162041.1564425520)) form. Exception requests could include dropping a course or withdrawing after the deadline, enrolling in a credit overload, concurrent enrollment, or meeting a requirement with a substitution. Students pursuing one of the business certificate options should utilize the Petition for course or requirement exceptions related to their certificate.

Exceptions to established policies, regulations, and/or program requirements should be rare and will be considered on an individual case by case basis. They will be reviewed by the School of Business Undergraduate Program’s Academic Advising Office. School of Business Department Chairs will be consulted on major requirement exceptions.

Substantial consultation time with faculty, staff, and/or deans may be required, so students should not expect to receive an immediate response.

### Grade Appeal

If a student is dissatisfied with a grade received in a School of Business course, the following procedure must be followed should the student wish to appeal the grade.

The student will first discuss the grade appeal with the instructor of the course.

If the student and instructor cannot come to an agreement, the student will provide a formal written request for grade appeal to the associate dean in charge of the relevant program. The written request must include

the class, instructor, grade received, date and conclusion of meeting with instructor, and the specific reason(s) for appealing the grade.

The associate dean will forward the appeal request to the chair of the department which houses the course in question. The department chair will perform the due diligence necessary (including, but limited to, meeting with the instructor and student) to assess the merits of the appeal request and will provide a decision in writing to the associate dean.

The associate dean will communicate the decision to both the student and instructor.

Should the student wish to appeal the decision further, the associate dean will perform the due diligence necessary (including, but limited to, meeting with the chair, instructor, and student) to assess the merits of the appeal request. The associate dean has the discretion to review not only the process that was undertaken in the first review, but also the earlier decision. The associate dean will provide a decision in writing to the chair, instructor, and student.

The instructor will take action if needed.

Please note that The Office of Compliance is responsible for investigating allegations of discrimination. If a student is appealing a grade due to alleged discrimination, they should be in contact with the Office of Compliance.

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## ONLINE DEGREE PROGRAM

School of Business students are responsible for being familiar with the policies that affect them. School of Business policy is subject to change, so be sure to review this website for the most up-to-date information. Questions related to policy interpretation can be directed to your academic advisor for clarification. The following policies apply to students pursuing one of the School of Business online degree programs.

## COURSES/ENROLLMENT

### Program Requirements

When students enter a School of Business online degree program, they are held to the degree requirements described in the most recent Guide. The term of admittance to the online program results in a catalog and alternate catalog year that reflects the most recent BBA requirements for the online program.

### 10 Semester Rule for Reentry Students

#### Students re-entering after an absence of 10 or more semesters:

A business student reentering UW–Madison is responsible for completing all the current School of Business degree requirements that are in effect at the time of reentry to UW–Madison and the School of Business. Students who left the institution as a business student do not need to reapply for admission to the School of Business when they return.

### Modality

The modality for School of Business online degree program courses are online only. Students in an online program who are enrolled in a class section which is not “Online Only” will be dropped from that class section. A change of program that requires change of modality of instruction is not permitted. Should there be compelling extenuating circumstances that justify a change in learning modality option for an individual student, the student may request of change of modality via the Petition for Special Consideration (<https://>

buswisc.qualtrics.com/jfe/form/SV\_3a4CkoBg7BQhXRr/?\_ga=2.207081875.1034170563.1614009576-1842162041.1564425520).

## Graduation

The School of Business will graduate a student at the end of the semester (spring, summer or fall) in which all university, BBA degree and business major requirements are complete and have a cumulative GPA of 2.00 or higher. Students cannot graduate with a temporary grade (<https://registrar.wisc.edu/valid-grades/>), such as I or NR, for any requirements. Speak with the course instructor or your advisor to resolve temporary grades. The date when the outstanding Incompletes (I) are resolved will determine the semester of graduation.

If a student is completing their final coursework while not in residence, the student must notify the School of Business Undergraduate Program's Advising Office when the official transcript has been evaluated by UW-Madison and appears on their record. This allows their DARS to be certified for graduation.

It is the student's responsibility to ensure that graduation requirements have been met. All students should regularly consult their DARS (Degree Audit Reporting System) document in conjunction with their advisor to ensure that all graduation requirements have been met.

## Student Responsibility for Enrollment

Each student is responsible for arranging a course list that will permit satisfactory progress toward degree requirements and for verifying registration in chosen classes.

The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit. Please pay special attention to session deadlines (<https://registrar.wisc.edu/sessioncodes/>). Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc. Students are strongly encouraged to consult with an academic advisor prior to initial enrollment and before making any changes to enrollment.

## No Credit Courses

The School of Business does not award credit for the following:

- Failed courses (grade of "F")
- Repeated courses (except where a repeat is allowed)
- Courses for which a student may not receive credit because of a previously completed course (as indicated in the Course Search & Enroll App)

Before enrolling in and taking any of the above courses, please consult your academic advisor.

## Part-time Enrollment

To maintain full-time standing, students must be enrolled in 12-18 credits. Undergraduate students who are considering dropping below full time (less than 12 credits) are responsible for knowing how part-time status will affect them. Below are some of the more common scenarios to explore before dropping credits:

### Scholarships, Grants, and Other Awards:

Depending on the conditions of the scholarship, a student may be required to be full time in order to remain eligible for an award. Be sure to check the stipulations for any awards you have received.

### Financial Aid:

Be sure to check with the Office of Student Financial Aid to find out if being part time will affect your financial aid package.

### Tuition Refunds:

Depending on when the credits are dropped, you may be eligible for a tuition refund. Check the registrar's website for information about refund deadlines.

### Athletes:

Varsity athletes are governed by Big Ten and NCAA rules that do not allow them to drop below full time. Be sure to check with your coach and athletic advisor before dropping below 12 credits.

### Degree Completion:

Taking fewer credits or courses than anticipated may delay your graduation. Be certain that if you drop a course, you will still be able to complete all required courses within your desired timeline. If you are not sure, please see your academic advisor.

## Pass/Fail

Undergraduate business students who are in good academic standing (i.e., not on probation) may take only one (1) course as pass/fail per semester including the summer session. A maximum of 16 total credits may be completed as pass/fail to count toward completion of the 120 degree credits required for the BBA.

The pass/fail privilege is for a non-business elective course. The following courses cannot be taken pass/fail:

- Any business courses including those designated as "meets with," "cross-listed," and business courses taken during study abroad programs
- Any requirement for the business major or degree, including, but not limited to, pre-business and liberal studies requirements

It is the responsibility of the student to check requirements and policies for non-business majors and certificates prior to requesting the pass/fail privilege.

The pass/fail grade will not be included when computing your GPA, but the pass/fail credits with S (Satisfactory) grades will apply toward graduation. S is the grade for A to C; U (Unsatisfactory) is the grade for D and F.

Students must complete a minimum of 12 graded credits each semester in order to be eligible for the dean's list.

In order to apply for the pass/fail privilege, students must submit an online request via Student Center. Please disregard the message that says "Reminder - print this form and obtain appropriate signatures." You do not need to do this.

Your request is then sent directly to the School of Business Undergraduate Program Office. You will be notified by email whether or not your request has been approved.

Please complete the online pass/fail form by the deadline. See the Office of the Registrar website for deadline information (<https://registrar.wisc.edu/dates/>).

Once the student has submitted the form, the course may not be changed from pass/fail back to a conventionally graded course after the established deadline. Once a pass/fail grade is recorded as S or U, it cannot be changed to a letter grade.

## Auditing a Course

Auditing an online degree program course is not permitted.

## Repeating a Course

Students thinking about repeating a course should talk with their advisor. Students must do all the work in the repeated course, including laboratory; attend regularly; participate in class discussions; and take examinations. Students will earn a final grade in the course. The transcript denotes repeated courses with a lowercase 'x' appearing immediately before the course description. Students should know that:

- the original grade still counts in GPA and remains on the transcript;
- credits in the repeated course do not count toward the degree, unless the course was failed the first time;
- grade points in the repeated course count toward calculation of cumulative GPA;
- credits carried on courses being repeated count toward the maximum credits permitted in a semester.

Transfer students must be particularly careful to avoid taking courses on the UW–Madison campus that duplicate courses taken at another school. Credit will not be given twice for the same or similar courses, nor will credit be given for a lower-level course in a sequence if students have already received credit for a higher-level course in that sequence. Students should carefully check the Evaluation of Transfer Credits prepared by Credit Evaluation Services and should consult with their advisor. Duplicate courses may include transfer credits and credit by exam, such as Advanced Placement, coming in as course equivalents.

### Residency for Degree

Students admitted to the School of Business Undergraduate Program, including students who transfer from another college or university, must complete a minimum of 30 credits in residence.

### Withdrawal

Withdrawal indicates that a student intends to stop attending all classes for the current term/semester. If a student wishes to drop all of their classes for a particular semester/term after the first day of classes, a student needs to formally withdraw from the semester by submitting the online withdrawal request in the MyUW Student Center. Failure to do so may result in a recording of Failure for all courses and a "may not continue" action. Any student may withdraw with permission and without grades being recorded at any time up to withdrawal deadline. Students should refer to the enrollment dates and deadlines (<https://registrar.wisc.edu/dates/>) provided by the Office of the Registrar. The Office of the Registrar provides additional information regarding withdrawal (<https://registrar.wisc.edu/withdraw/>), including impacts of withdrawal.

**Medical Withdrawal:** For information on medical withdrawals, students should refer to the Medical Withdrawal (<https://policy.wisc.edu/library/UW-1084/>) policy.

In addition to entering a request for medical withdrawal in the MyUW Student Center, Business students will need to submit the Petition for Special Consideration form ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.152083449.1715547210.1624291160-630380142.1620053901](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.152083449.1715547210.1624291160-630380142.1620053901)). A staff member from the Academic Dean's Office will be in contact with you following the submission. Medical withdrawals are approved on a case-by-case basis, and medical documentation will be required.

### Credit Overload

To obtain special permission for a credit overload, students need to submit a petition for special consideration ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.5642675.1034170563.1614009576-1842162041.1564425520](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.5642675.1034170563.1614009576-1842162041.1564425520)) and demonstrate that special circumstances are involved.

Students who wish to take more than 18 credits during the fall or spring semester must have earned a minimum of 3.000 cumulative GPA on the UW–Madison campus. Students will not be permitted to carry more than 20 total credits during the fall or spring semester.

Students can take a maximum of 12 credits during the summer session. Please note that there are credit limits by session as well. Students may enroll for one credit per week of instruction (e.g.: a student can earn 3

credits during a 3-week session, but needs approval to earn 4 credits in a 3-week session). Students who are seeking a credit overload for the summer session must have earned a minimum of 3.000 cumulative GPA on the UW–Madison campus. Students will not be permitted to carry more than 13 total credits during the summer session.

Credit overloads will incur additional tuition costs. Visit Tuition & Fees (<https://bursar.wisc.edu/tuition-and-fees/>) for more information.

## GRADES

### Academic Probation

Students admitted to the School of Business must maintain all of the following GPA minimums:

- 2.00 cumulative GPA on all UW–Madison coursework
- 2.00 semester GPA for each semester (including summer term)

Students who do not meet these GPA minimums will be assigned an academic action (see below for list of actions) based on:

1. The student's most recent academic action from a prior term
2. The student's cumulative GPA (including the current term)
3. The student's term GPA for the semester just completed

A student will be cleared of probationary status at the end of the semester when all of the above conditions are met and the student's record contains no grade of incomplete.

### Probationary actions

Students will be notified via email of the requirements they must complete as part of their probationary status.

**Probation:** A student who has a prior academic action of *Good Academic Standing* or who has no prior academic action and who achieves a cumulative or term GPA between 1.0 and 2.0 will be placed on probation.

**Continued Probation:** A student on Probation whose cumulative GPA remains below 2.0 and whose term GPA for the term just completed is 2.0 or above will be placed on continued probation.

**Strict Probation:** A student can be placed on *Strict Probation* when they either:

1. Have a prior academic action of *Good Academic Standing* and achieve a term GPA of less than 1.0 in the semester just completed.
2. Have a prior academic action of *Probation* and achieve a term GPA of less than a 2.0 in the semester just completed

**Continued Strict Probation:** A student on *Strict Probation* whose cumulative GPA remains less than a 2.0 but whose term GPA for the term just completed is 2.0 or above will be placed on *Continued Strict Probation*.

**Dropped for one semester (Academic Suspension):** A student on *Strict Probation* or *Continued Strict Probation* who earns a term GPA for the term just completed less than 2.0.

Students have the opportunity to appeal the "dropped for one term" status by participating in an appeals process. The School of Business' Academic Dean's Office will notify students by email of the appeals process and timeline.

Students who were dropped for one term may reapply on probationary status (after a one-semester hiatus) if they can demonstrate the ability and desire to devote sufficient energy to scholastic work. To reapply, students may complete a reentry application (<https://>

admissions.wisc.edu/apply-as-a-reentry-student/) through the Office of Admissions and Recruitment.

GPA deficiencies causing probationary status cannot be removed through coursework at another university or through correspondence study.

### Dean's List

Business students who achieve a grade point average of 3.75 for any semester in which they complete 12 graded degree credits will have their names on the dean's list. A permanent record of this achievement is entered on the student's transcript. Students with I, P, or U on their grade report will automatically be ineligible for the dean's list. Subsequent academic action may change eligibility.

### Grading Policy

The mean grade should be no higher than 3.0 in the following undergraduate classes:

ACCT I S 100 Introductory Financial Accounting, GEN BUS 301 Business Law, ACCT I S 211 Introductory Managerial Accounting, ECON/ FINANCE 300 Introduction to Finance, MARKETNG 300 Marketing Management, M H R 300 Managing Organizations, OTM 300 Operations Management, R M I 300 Principles of Risk Management

For all other undergraduate courses with class numbers below 600 and 15 or more students enrolled, the mean grade should be no higher than 3.3 and the maximum percentage of As is 30%.

### Graduating with Distinction

The Office of the Registrar compiles a preliminary list of business students eligible for distinction. These students are eligible to wear an honors stole with their commencement attire. The School of Business Undergraduate Program will notify eligible students via email 2-3 weeks before the commencement ceremony.

Distinction is awarded to graduated business students who meet the following criteria:

- At least sixty (60) credits earned (in residence) at UW-Madison
- A cumulative UW-Madison GPA in the top twenty percent (20%) of the graduating business class

Please note that students on the preliminary list for distinction may or may not receive distinction. The distinction designation is subject to change and is dependent upon official graduation date (semester), number of students graduating, and final grade calculations, including last semester and in-progress courses.

Students who graduate with distinction are eligible to wear a cardinal stole with their commencement attire. The stoles can be obtained from the University Bookstore with a deposit and do not need to be ordered in advance. More information on graduation attire can be found on the site of the Secretary of the Faculty.

"Graduated with Distinction" is notated on official transcripts only.

### Incomplete Policy

An incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond his/her control, has been unable to take or complete the final examination or to complete some limited amount of term work. An incomplete is not given to a student who stays away from a final examination unless the student proves to the instructor that he or she was prevented from attending as indicated above. In the absence of such proof, the grade shall be F; even with such proof,

if his/her work has convinced the instructor that he/she cannot pass, the grade shall be F.

If an admitted business student earns an incomplete, the work for that course must be completed by the last class day of the student's next semester in residence (exclusive of summer sessions). Incompletes incurred in the last semester of residence may not be removed after five years of absence from the university without special advance permission of the associate dean. Such incompletes must remain on the record with grades of PI and do not lapse into failures.

Probationary status will be applied, when applicable, to business students with an incomplete. The academic action will be based on their GPA without the course that has an incomplete. This is a temporary action that could change once the incomplete is resolved. Please see the "Academic Probation" section for further information on the policy and GPA minimums.

If a student is graduating and has an incomplete in the term they wish to graduate, they will need to complete the work before their degree can be awarded. Finishing up work for an incomplete after the term/semester means that a student will be awarded their degree at the next official graduation date.

## MAJOR DECLARATION

### Additional Major

Students in a School of Business online degree program will only be permitted to declare the designated degree/major/option they have been admitted to and will not be permitted to be concurrently enrolled in more than one academic program (degree/major/option or certificate).

### Major Change

Students enrolled in a School of Business online degree program may apply for change to another online major within the School of Business. Students can submit their request via the Online Degree Major Change Form (<https://business.wisc.edu/undergraduate/academic-advising/>).

Students enrolled in a School of Business online degree program may apply for a change to another UW-Madison online degree program. All change requests will be reviewed and need approval by the designated academic dean in both schools/colleges.

## COURSES AT OTHER INSTITUTIONS

### Common Guidance for off campus coursework

School of Business undergraduate students are advised to take no more than two courses in their major (or per major if pursuing multiple majors) off-campus. This guidance includes courses taken for transfer credit at another accredited institution as well as courses taken on a School of Business or UW-Madison-sponsored study abroad program.

While School of Business undergraduate students are able to take courses off-campus, the School of Business Undergraduate Program reminds students that they should plan to complete all prerequisites for any off-campus course, regardless of its place in the BBA curriculum, prior to taking the course off-campus. Attention to these prerequisites is crucial to ensuring School of Business undergraduate students are prepared for their coursework whether it is taken on or off campus. Advance academic planning is an integral part of a student's success and ability to remain on track to graduate.

### Concurrent Enrollment

Students are strongly encouraged to share with their advisor if they plan to enroll in coursework at another institution at any time once they are a UW-Madison student. Advisors assist students in making decisions regarding

enrollment in coursework at a different institution and share resources with students to ensure that courses will transfer to UW–Madison for degree credit and satisfy the requirement(s) they expect. While students are always encouraged to share this information with their advisor, students are required to gain permission to take courses elsewhere in certain circumstances.

School of Business students are not allowed to enroll concurrently at other accredited post-secondary institutions when they are enrolled at UW–Madison (fall, spring) without seeking special permission via the Petition for Special Consideration (<https://business.wisc.edu/undergraduate/academic-advising/>).

Students are permitted to enroll in more than one university during the summer session. However, please be aware that if you are taking a course at another university that begins in the summer and coincides with the fall and/or spring semester, it will fall into this category of concurrent enrollment, regardless of when the course will be completed.

If students are taking a course at another institution of higher learning over UW–Madison's winter break, they do not need to seek permission for concurrent enrollment if the course does not overlap UW–Madison's spring term or if the overlap is two weeks or less. Please note that students may take no more than one course off-campus during winter recess.

If it is discovered that a student violated this policy, this credit will be removed from the student's record. It is the responsibility of the student to verify with their academic advisor that they are not in violation of this policy.

## Independent Learning

UW Independent Learning (UW IL) is a branch of UW Extension that offers online and distance learning courses. Courses taken through UW Independent Learning are considered concurrent enrollment and require special permission to enroll in the fall, spring or summer.

Students interested in taking a course through UW IL should meet with an academic advisor. If the advisor and student agree this is a good option the student should follow these steps to request permission for concurrent enrollment and request a tuition waiver (if applicable). Forms should be returned to 3150 Grainger.

- Fill out a Petition/Special Consideration Request ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.215341335.1034170563.1614009576-1842162041.1564425520](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.215341335.1034170563.1614009576-1842162041.1564425520)) requesting permission for concurrent enrollment with UW Independent Learning. Be sure to include which class you intend to take.
- Students with full time status at UW–Madison may request a tuition waiver (<https://business.wisc.edu/undergraduate/academic-advising/>) for UW Extension Independent Learning Courses provided that the following conditions are met:
  - The student requests the waiver and enrolls in the course by the UW–Madison add deadline (second Friday of the semester).
  - The course is taken during the regular academic session
  - The course is completed during the term for which the tuition waiver is requested
  - The student does not exceed 18 credits total between the two campuses.

Students are responsible for the \$75 administrative fee for enrolling in a UW IL course.

The minimum length of time to complete an IL course is typically three months. Foreign language courses often require more time. Students should take this into consideration as they are planning the completion of their degree.

## Transfer Credits

UW–Madison students may choose to take courses off campus during the summer or winter session and potentially transfer credit to UW–Madison. The UW–Madison Office of the Registrar handles transfer course equivalencies. Please note that UW–Madison students may not take courses at another institution during the fall or spring semester if they are concurrently taking courses at UW–Madison (see concurrent enrollment policy). Students may take no more than one course off-campus during winter recess. Students interested in earning transfer credit for a non-UW study abroad program (<https://studyabroad.wisc.edu/nonapproved/>) must work with UW–Madison's International Academic Programs well in advance.

It is highly recommended that students do not take a course unless they know in advance that it will transfer to UW–Madison for credit. The Office of the Registrar provides information regarding how to determine course equivalencies (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>).

## Transfer Credit Process

- Review your DARS report and consult your academic advisor to see what you still need to take and whether the course(s) would be a good option to take at another institution over the summer or winter session. It is not advised to take your business major courses off campus.
- Research course options at the institution where you plan on taking the course(s).
- Determine equivalency using Office of the Registrar course equivalency resources (<https://registrar.wisc.edu/course-equivalency-service/>), beginning with Transferology (<https://www.transferology.com/state/wisconsin.htm>).
- Apply as a "special" or "guest" student at the institution you plan on attending.
- Enroll in the course and pay tuition directly to the institution you are attending.
- After the course is complete, have the institution send an official transcript to the UW–Madison Office of Admissions and Recruitment at 702 West Johnson Street, Suite 1101, Madison, WI 53715-1007 or [etranscripts@admissions.wisc.edu](mailto:etranscripts@admissions.wisc.edu).

## APPEAL

### Academic Policy or Requirement Appeal

If an undergraduate business student wishes to request an exception to a School of Business academic policy or regulation, or a degree or major requirement, they should start by consulting with their academic advisor. They then will need to formally submit their request using the Petition for Special Consideration ([https://buswisc.qualtrics.com/jfe/form/SV\\_3a4CkoBg7BQhXRr/?\\_ga=2.2520624.1034170563.1614009576-1842162041.1564425520](https://buswisc.qualtrics.com/jfe/form/SV_3a4CkoBg7BQhXRr/?_ga=2.2520624.1034170563.1614009576-1842162041.1564425520)) form. Exception requests could include dropping a course or withdrawing after the deadline, enrolling in a credit overload, concurrent enrollment, or meeting a requirement with a substitution.

Exceptions to established policies, regulations, and/or program requirements should be rare and will be considered on an individual case by case basis. They will be reviewed by the School of Business Undergraduate Program's Academic Advising Office. School of Business Department Chairs will be consulted on major requirement exceptions. Substantial consultation time with faculty, staff, and/or deans may be required, so students should not expect to receive an immediate response.



## Grade Appeal

If a student is dissatisfied with a grade received in a School of Business course, the following procedure must be followed should the student wish to appeal the grade.

The student will first discuss the grade appeal with the instructor of the course.

If the student and instructor cannot come to an agreement, the student will provide a formal written request for grade appeal to the associate dean in charge of the relevant program. The written request must include the class, instructor, grade received, date and conclusion of meeting with instructor, and the specific reason(s) for appealing the grade.

The associate dean will forward the appeal request to the chair of the department which houses the course in question. The department chair will perform the due diligence necessary (including, but limited to, meeting with the instructor and student) to assess the merits of the appeal request and will provide a decision in writing to the associate dean.

The associate dean will communicate the decision to both the student and instructor.

Should the student wish to appeal the decision further, the associate dean will perform the due diligence necessary (including, but limited to, meeting with the chair, instructor, and student) to assess the merits of the appeal request. The associate dean has the discretion to review not only the process that was undertaken in the first review, but also the earlier decision. The associate dean will provide a decision in writing to the chair, instructor, and student. The instructor will take action if needed.

Please note that The Office of Compliance is responsible for investigating allegations of discrimination. If a student is appealing a grade due to alleged discrimination, they should be in contact with the Office of Compliance.

## REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business.

## PRE-BUSINESS REQUIREMENTS

Students applying through the pre-business or direct transfer process need to complete or be in the process of completing all pre-business courses at the time of application. In-progress courses must be completed by the end of the application term and cannot be deferred to a later term.

Students admitted through the direct admit process must complete these courses by the end of their first year.

Code	Title	Credits
<b>Communication Part A</b>		
Complete one course designated Communication Part A, preferably:		0-3
COM ARTS 100	Introduction to Speech Composition	
ENGL 100	Introduction to College Composition	
ESL 118	Academic Writing II	
Completion of Communication Part A based on UW Placement Test		
<b>Economics</b>		
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics-Accelerated Treatment	4

## Psychology

PSYCH 202	Introduction to Psychology	3-4
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## Calculus

Select one of the following:		5
MATH 211	Calculus	
MATH 217	Calculus with Algebra and Trigonometry II	
MATH 221	Calculus and Analytic Geometry I	

## Total Credits

12-16

## LIBERAL STUDIES REQUIREMENTS

Liberal studies requirements must be completed prior to graduation. **Students may not use courses offered by the Department of Economics or by the School of Business to fulfill liberal studies requirements. In addition, a single course may not be used to fulfill multiple liberal studies requirements.**

Code	Title	Credits
<b>Literature</b>		
Select one 3 (or more) credit course designated Literature (L)		3
<b>Science</b>		
Select six credits designated Biological, Natural or Physical Science. Courses that MAY NOT COUNT include: Courses in Computer Science, Mathematics, Statistics or Economics.		6
<b>Ethics</b>		
Select one of the following:		3-4
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
<b>Humanities</b>		
Select one 3 (or more) credit course designated Humanities (H or Z) <sup>1</sup>		3
<b>Ethnic Studies</b>		
Select one 3 (or more) credit course designated Ethnic Studies (e)		3
<b>Social Science</b>		
Select one 3 (or more) credit course designated Social Science (S or Z)		3
<b>Total Credits</b>		<b>21-22</b>

1

**Note:** If a student completes an additional Literature (L) course, this requirement will be satisfied

## BUSINESS FOUNDATION REQUIREMENTS

All BBA degree candidates are required to complete foundation courses in business and economics. The foundation courses, in conjunction with a broad educational base, are designed to integrate the student's specialized training with an understanding of the structure and

functions of business and its role in the larger social system. Business foundation courses make up the business preparatory, core, and breadth requirements. Sequencing of courses in business preparatory, core, and breadth sections may vary based on a student's academic plan or major. Consult with your academic advisor for specific recommendations.

## BUSINESS PREPARATORY REQUIREMENT

All students must take the following:

Code	Title	Credits
GEN BUS 110 or GEN BUS 120	Personal and Professional Foundations in Business	1
GEN BUS 106	Foundational Skills for Business Analysis	1
GEN BUS 360	Workplace Writing and Communication	3
ECON 102 or ECON 111	Principles of Macroeconomics Principles of Economics-Accelerated Treatment	3-4
ACCT IS 100	Introductory Financial Accounting	3
ACCT IS 211	Introductory Managerial Accounting	3
Business Analytics (options for this are found below)		6-9
<b>Total Credits</b>		<b>20-24</b>

## BUSINESS ANALYTICS REQUIREMENT

The business analytics requirement is part of the Business Preparatory Requirement, and has 3 options. Most students complete Option 1. GEN BUS 306 & GEN BUS 307 should be taken as soon as possible and in subsequent semesters. Actuarial science majors and economics majors or certificate students will fulfill Option 2 or 3. Number of credits for this requirement varies between options:

Code	Title	Credits
<i>Option 1:</i>		
GEN BUS 306 & GEN BUS 307	Business Analytics I and Business Analytics II	6
<i>Option 2 (Required for Actuarial Science Majors):</i>		
This is a 3-course sequence. Choose one course from each of the three options:		
MATH/STAT 431 or STAT/ MATH 309 or STAT 311	Introduction to the Theory of Probability Introduction to Probability and Mathematical Statistics I Introduction to Theory and Methods of Mathematical Statistics I	9
STAT/MATH 310 or STAT 312	Introduction to Probability and Mathematical Statistics II Introduction to Theory and Methods of Mathematical Statistics II	
ACT SCI 654 or ACT SCI 655 or GEN BUS 656	Regression and Time Series for Actuaries Health Analytics Machine Learning for Business Analytics	

*Option 3 (Recommended for Economics Double Majors or Certificate Students):*

This is a 2-course sequence. Choose one course from each of the two options: 8

ECON 310	Statistics: Measurement in Economics
ECON 410 or ECON 400	Introductory Econometrics Introduction to Applied Econometrics

## BUSINESS CORE REQUIREMENT

Business Core courses are recommended to be completed by the end of a student's junior year.

Code	Title	Credits
FINANCE/ ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
OTM 300	Operations Management	3
<b>Total Credits</b>		<b>12</b>

### Business Breadth Requirement

Business Breadth courses must be completed by graduation.

Code	Title	Credits
GEN BUS 301	Business Law	3
Business Breadth Course <sup>1</sup>		3
Business Breadth Course <sup>1</sup>		3
<b>Total Credits <sup>2</sup></b>		<b>3-9</b>

1

Students must complete two business courses (3 credits each) that are outside their major from two separate School of Business departments. Courses taken to satisfy this requirement may not include preparatory or core courses, courses required by or cross-listed with the student's major, general business courses, any 399 (Readings and Research) course, or business courses cross-listed with foreign language departments. Courses taken at another institution must be directly equivalent to a UW-Madison business course and title (i.e. not elective credit which is sometimes given an X10 course number).

2

Students with two majors in business or students with one major and a business related certificate need only one course (3 credits) outside their majors/certificate to satisfy this requirement. Students with three or more business majors or two majors and a business related certificate are not required to take additional breadth courses.

## CREDITS FOR BBA DEGREE CREDIT REQUIREMENTS

Candidates for the BBA degree must meet all of the following credit requirements in addition to completing the required coursework.

### 120 Degree Credits

All students who plan to graduate from the University of Wisconsin-Madison with a bachelor's degree must complete a minimum of 120 degree credits.

## RESOURCES

### ACADEMIC ADVISING

As a student in the Wisconsin Business Undergraduate Program, you will work directly with academic advisors who will help you plan your business education every step of the way. The advisors are here to help you explore options, define goals, and accomplish what you set out to achieve during your time as a Business Badger and beyond. Academic advisors also support students in making choices about course enrollment and understanding and interpreting degree requirements and policies.

Advisors in the Wisconsin Business Undergraduate Program work in partnership with you. They give you the tools and support you need to make your own decisions about the course of your education. Your partnership with the advising team begins early in your academic career at the University of Wisconsin–Madison. When you enroll in the UW–Madison, one of your first steps will be to attend Student Orientation, Advising, and Registration (SOAR), where you will have your first meeting with an academic advisor.

Admitted students are welcomed and encouraged to check in with their academic advisor each term. Academic Advising also offers drop-in advising hours daily during the academic year. UW–Madison students who are not yet enrolled in the Wisconsin Business Undergraduate Program but who expect to apply through the pre-business admissions process (<https://business.wisc.edu/undergraduate/admissions/current-uw-students/>) receive their business advising at the School of Business with pre-business academic advisors.

In addition to providing advising, the School of Business Undergraduate Program serves as the academic dean's office: interpreting policy, administering academic processes, and performing graduation checks for graduating business students. For more information, visit the advising website (<https://business.wisc.edu/undergraduate/academic-advising/>) or contact Undergraduate Academic Advising in 3150 Grainger Hall; 608-262-0471; [wibbaadvising@wsb.wisc.edu](mailto:wibbaadvising@wsb.wisc.edu) ([wibbaadvising@bus.wisc.edu](mailto:wibbaadvising@bus.wisc.edu)).

### CAREER DEVELOPMENT

The WSB Career Engagement Team takes a relationship-based approach to working with students throughout the career development process and consults with top employers to facilitate the recruitment, hiring and career readiness of our students. Our Career Forward program offers a variety of services and experiences to admitted undergraduate business, certificate in business, certificate in entrepreneurship, capstone in actuarial science, and master of accountancy students including 1:1 coaching, career/major pathways exploration and planning, career workshops, mock interviews, career fairs, career treks, employer recruiting events, on-campus interviewing, experiential learning opportunities, job shadowing, industry connections, and networking events. We will also coach you through the development of a professional resume, cover letter, networking and interviewing skills and job search, offer and negotiation skills. Through the exploration of your values, strengths, skills and interests, we will help you create a career roadmap and action plan early on in your collegiate experience so that you can participate in experiences both on and off campus to build your skills and readiness for the workplace or graduate study. Career planning is an ongoing process, and we are committed to helping you determine and achieve your immediate career

goals and support you in developing the skills to manage a successful career throughout your lifetime.

For more information about Career Engagement resources for students and faculty/staff, please see this page (<https://business.wisc.edu/undergraduate/careers/>).

### STUDENT LIFE

The WSB Undergraduate Program Student Life office coordinates leadership and involvement opportunities (<https://business.wisc.edu/undergraduate/leadership/>) for students to enhance their personal and professional skills.

The Accenture Leadership Center (ALC) offers students unique, hands-on opportunities to develop leadership skills through workshops, guest speaker events, leadership case competitions, and more. The ALC acts as a general resource for all business affiliated Student Organizations and coordinates the room reservations for the Undergraduate Lounge space and offices held within. The ALC can also facilitate tailored leadership workshops upon request, and plan larger leadership conferences open to all business and pre-business students.

The WSB Undergraduate Program also has its own student government, UBC (Undergraduate Business Council), to unify and represent the student voice on issues of shared governance within the school and to promote community among business students. In addition, there are 40+ undergraduate business student organizations, offering plenty of opportunities for students to get involved and put their leadership and collaboration skills into practice. A business student organization fair is held at the start of each semester where potential new members can meet with representatives of organizations.

In recognition that community and connection are vital to student success, the Student Life team also provides support and programs geared towards underrepresented student populations. Students can join a variety of identity-based affinity groups, participate with the Student Organization Diversity & Inclusion Council, and/or get involved with the new Multicultural Space within the School of Business. Student Life also hosts a variety of educational events centered on topics of diversity, equity, and inclusion for all business and pre-business students to attend.

The student life team also oversees the Personal and Professional Foundations in Business course that all newly admitted BBA students take. This course introduces students to School of Business resources, helps them develop important leadership skills, facilitates networking, and encourages personal reflection about their time as a BBA student and future goals.

For more information about Wisconsin BBA Student Life, see this page (<https://business.wisc.edu/undergraduate/leadership/>).

### BBA GLOBAL PROGRAMS

The WSB Global Programs team works to advise students in all phases of study abroad including program selection and preparation, while abroad, and upon return. A study abroad experience (<https://business.wisc.edu/undergraduate/study-abroad/>) can complement and enhance every aspect of your business education. This is made possible by partnering with top business schools and study abroad programs across the globe to offer more than 35 business focused study abroad opportunities for students. Around 40 percent of each Wisconsin BBA graduating class studies abroad. These students regularly speak of their experience as professionally rewarding and personally transformative. A study abroad

experience can be a great way to demonstrate enhanced autonomy, motivation, organization, worldview, and resilience. You, too, can return from study abroad with a developed set of skills (that employers value!), a new sense of self, and a greater appreciation of cultural differences.

Expanding access to study abroad opportunities is a priority of our team and we work to develop programs in new locations and of different lengths (ranging from one week to an academic year) as well as create scholarships for study abroad.

The School of Business works in close collaboration with the campus-wide study abroad office, International Academic Programs (IAP), to administer study abroad programs geared specifically for undergraduate business students. All approved UW-Madison programs share policies, procedures, and best practices. The UW-Madison Study Abroad website (<https://studyabroad.wisc.edu/>) highlights the portfolio of business specific programs (<https://studyabroad.wisc.edu/programsearch/?advisinglocation=102>) as well as other programs that may have a focus outside of, or in addition to, business (e.g. liberal studies, language learning, engineering, or life sciences).

## ACCOUNTING AND INFORMATION SYSTEMS

The accounting major allows students to develop strong technical and professional skills to succeed in a dynamic profession. Learn how emerging technologies are changing the landscape of business and gain an appreciation for the global and diverse nature of a career path in accounting. The curriculum covers financial, managerial and cost accounting, accounting systems and emerging technologies, taxation, audit and advisory services. Students will learn to evaluate the economic transactions on which businesses are built and organize and report the impact of those transactions.

### DEGREES/MAJORS/CERTIFICATES

- Accounting, Certificate (p. 1468)
- Business: Accounting, BBA (p. 1469)

## ACCOUNTING, CERTIFICATE

The undergraduate certificate in accounting provides students the opportunity to develop additional expertise in accounting without having to pursue a double major. This certificate is available to all undergraduate students enrolled in the School of Business, with the exception of those students majoring in accounting. This certificate allows for a lot of flexibility so that students can customize their coursework to best complement their current business major. Students who complete this certificate would be prime candidates to continue their study in the one-year MAcc program, which will expand potential career opportunities.

### HOW TO GET IN

To declare this certificate, students must be admitted to UW-Madison and the School of Business (WSB). To find out more about the school's admissions process for undergraduate students, please see Entering the School (<https://guide.wisc.edu/undergraduate/business/#enteringtheschooltext>). Contact the Wisconsin BBA Advising Center

listed under the Advising and Careers tab for more information or to declare the certificate.

Students may not earn this certificate in conjunction with a BBA in Accounting.

## REQUIREMENTS

A minimum 2.5 GPA must be earned on all course work applied to meet the requirements of the certificate program. At least 50% of the certificate credits must be earned in residence at UW-Madison as a degree-seeking undergraduate. Completion of this certificate satisfies one of the business breadth courses needed for the BBA.

Code	Title	Credits
ACCT I S 301	Financial Reporting I	3
<i>ACCT I S Electives</i>		9
<i>These electives can include any courses numbered ACCT I S 302 through ACCT I S 699</i>		
<b>Total Credits</b>		<b>12</b>

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Understand the proper presentation, measurement, and reporting financial statement elements and transactions, and the use of financial statement information for analysis purposes.
2. Understand that financial and nonfinancial information serves numerous purposes in an organization, especially in relation to facilitating and influencing decisions.
3. Document, evaluate, and recommend improvements to basic accounting information systems used to control processes and communicate information to be used in financial reporting.
4. Understand the objective of taxes applicable at the federal level, and apply a framework for integrating income tax planning into accounting and business transactions as a foundation for structuring tax efficient business transactions.
5. Gain technical knowledge about how to perform a high-quality audit, and gain familiarity with how independence, objectivity, professional skepticism, and ethical behavior contribute to a high-quality.

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

## ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

## ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

*Students may direct questions about the IMAcc program to Katharine Widlak (katharine.widlak@wisc.edu), director of the program, or their academic or career advisor.*

## CAREERS

The most common career paths in accounting include public and corporate accounting.

Public accountants work with clients to review or prepare financial documents. All areas of public accounting work together to inspect control processes and determine accuracy of financial information and compliance with laws, regulations, and generally accepted accounting principles. They make recommendations regarding business decisions and company finances. Public accounting includes audit/assurance and tax.

Corporate accountants manage an organization's financials and provide expertise in financial reporting and control to assist management in forming and implementing business strategy. Corporate accounting is a broad term that can include many different functions, such as management accounting, internal audit, and financial analysis.

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### ACCOUNTING FACULTY AND STAFF

**For more information about the faculty and their research interests, please visit the directory** (<https://business.wisc.edu/directory/>).

## BUSINESS: ACCOUNTING, BBA

By pursuing the accounting major (<https://business.wisc.edu/undergraduate/majors/accounting/>), you will develop strong technical and professional skills to succeed in a dynamic profession. Learn how emerging technologies are changing the landscape of business and gain an appreciation for the global and diverse nature of a career path in accounting.

Topics, skills, and concepts:

- Financial and managerial accounting, cost accounting, accounting systems, emerging technologies, taxation, audit and advisory services.
- Evaluate the economic transactions on which businesses are built, and organize and reporting the impact of those transactions. Learn to evaluate the tax impact of business decisions.
- Critical analysis, group dynamics, problem solving, and communication skills.

### RELATED STUDENT ORGANIZATIONS

Beta Alpha Psi (<https://win.wisc.edu/organization/bap/>)

Institute of Management Accountants (<https://win.wisc.edu/organization/imauwmadison/>)

Women in Finance and Accounting (<https://win.wisc.edu/organization/wifa/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

Students declared in Business: Accounting BBA cannot earn the Certificate in Accounting, Summer Certificate in Business Fundamentals, Certificate in Business, or the Certificate in Entrepreneurship due to curriculum overlap.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	• Breadth–Humanities/Literature/Arts: 6 credits
	• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
	• Breadth–Social Studies: 3 credits
	• Communication Part A & Part B *
	• Ethnic Studies *
	• Quantitative Reasoning Part A & Part B *

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## ACCOUNTING MAJOR REQUIREMENTS

The accounting major is a total of 24 credits, distributed as follows:

Code	Title	Credits
GEN BUS 302	Business Organizations and Negotiable Instruments	3
ACCT I S 301	Financial Reporting I	3
ACCT I S 302	Financial Reporting II	3
ACCT I S 310	Cost Management Systems	3
ACCT I S 340	Accounting Information Systems	3
ACCT I S 620	Fundamentals of Taxation	3
ACCT I S 621	Corporate and Advanced Taxation	3
ACCT I S 630	Foundations of Auditing	3

Accounting majors must take a minimum of 18 credits of ACCT I S courses numbered 301 or higher at UW-Madison

<b>Total Credits</b>	<b>24</b>
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## RECOMMENDED ELECTIVES<sup>1</sup>

Code	Title	Credits
ACCT I S 406	Accounting and Analysis for Reporting Entities <sup>2</sup>	3
ACCT I S 600	Professional Experience in Accounting	1-6
ACCT I S 601	Professional Practice Issues in Accounting, Auditing, and Taxation	3
ACCT I S 603	Financial Statement Analysis <sup>2</sup>	3
ACCT I S 640	Foundation in Accounting Analytics <sup>2</sup>	3

The following courses are recommended as program electives outside of accounting. The student is encouraged to elect as many as a program will permit.

FINANCE/ ECON 320	Investment Theory <sup>2</sup>	3
FINANCE 325	Corporation Finance	3
FINANCE 602	Wealth Management & Financial Planning <sup>2</sup>	3
FINANCE 635	Business Valuation <sup>2</sup>	3
FINANCE 650	Mergers and Acquisitions <sup>2</sup>	3
INFO SYS 322	Introduction to Databases	3
M H R 310	Challenges & Solutions in Business Sustainability <sup>2</sup>	3
M H R 617	Diversity in Organizations <sup>2</sup>	3
R M I 300	Principles of Risk Management <sup>2</sup>	3
R M I 650	Sustainability, Environmental and Social Risk Management <sup>2</sup>	3
R M I 660	Risk Analytics and Behavioral Science <sup>2</sup>	3
R M I 670	Cyber Risk & Regulations <sup>2</sup>	3

1

Students who are interested in sitting for the CPA Exam may consider taking 1–2 extra accounting courses, as CPA requirements vary from state to state. Further, students interested in sitting for the CPA Exam should take INFO SYS 322, which covers many CPA exam learning objectives and meets a requirement to sit for the CPA exam in Wisconsin prior to graduation with a MAcc degree.

2

Students interested in pursuing a Graduate Accounting degree from UW-Madison will have the ability to transfer up to 6 credits of undergraduate coursework to their graduate degree. These courses would be eligible to transfer under this policy.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Apply Generally Accepted Accounting Principles (GAAP) (and relevant assumptions, principles, and constraints) to prepare financial statements.
2. Recognize that management accounting and control systems, providing financial and non-financial performance information, are integral to the successful design and implementation of an organizational strategy.
3. Interpret and validate business events and transactions through the lens of business processes and systems.
4. Demonstrate technical competence in income taxation of individuals, partnerships, corporations, and international organizations.
5. Identify the legal implications of their choices and how the law impacts their interactions with others in a business setting.
6. Explain how to complete an audit from beginning to end, applying auditing standards, assessing risk, and gathering evidence.

## FOUR-YEAR PLAN

This page includes four **sample** four-year plans, two plans for students directly admitted into the School of Business from high school and two plans for students not directly admitted from high school. In each of the two sets of plans, the first plan represents the accounting major and the second plan represents the accounting major with the Integrated Master of Accountancy Program (IMAcc). We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### PLAN 1: ACCOUNTING MAJOR - DIRECT ADMIT

#### Freshman

Fall	Credits	Spring	Credits
MATH 211	3	ACCT I S 100	3
GEN BUS 106	3	ECON 101	4
GEN BUS 110	3	PSYCH 202	3
Communications A	3	M H R 300	3
Ethnic Studies	3	Humanities	3
	<b>13</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
ACCT I S 211	3	ACCT I S 302	3
ACCT I S 301	3	ACCT I S 310	3

GEN BUS 306	3	FINANCE/ECON 300	3
MARKETNG 300	3	GEN BUS 307	3
ECON 102	4	GEN BUS 360	3
	<b>16</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
ACCT I S 620	3	ACCT I S 630	3
GEN BUS 301	3	GEN BUS 302	3
OTM 300	3	Business Breadth	3
Science	3	Ethics <sup>1</sup>	4
Elective	3	Elective	3
	<b>15</b>		<b>16</b>

#### Senior

Fall	Credits	Spring	Credits
ACCT I S 340	3	Business Breadth	3
ACCT I S 621	3	Literature	3
Science	3	Electives	8
Social Science	3		
Elective	3		
	<b>15</b>		<b>14</b>

#### Total Credits 120

#### 1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

Note: A student pursuing this plan may end up taking more credits to reach 150 total credits to be eligible to sit for the CPA exam.

### PLAN 2: ACCOUNTING MAJOR WITH IMACC - DIRECT ADMIT

#### Freshman

Fall	Credits	Spring	Credits
MATH 211	3	ACCT I S 100	3
Communications A	3	ECON 101	4
GEN BUS 106	3	PSYCH 202	3
GEN BUS 110	3	M H R 300	3
Ethnic Studies	3	Humanities	3
	<b>13</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
ACCT I S 211	3	ACCT I S 302	3
ACCT I S 301	3	ACCT I S 310	3
GEN BUS 306	3	FINANCE/ECON 300	3
ECON 102	4	GEN BUS 307	3
MARKETNG 300	3	GEN BUS 360	3
	<b>16</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
ACCT I S 620	3	ACCT I S 630	3
GEN BUS 301	3	GEN BUS 302	3
OTM 300	3	Business Breadth	3
Science	3	Ethics <sup>1</sup>	4

Literature	3	Elective	3
		<b>15</b>	<b>16</b>

**Total Credits 120**

1  
Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

2  
We recommend that IMAcc students who complete an internship during the spring semester fulfill these elective credits outside of the spring semester (summer, online, AP credits, etc.).

**PLAN 3: ACCOUNTING MAJOR - NONDIRECT ADMIT**

**Freshman**

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 106	1	PSYCH 202	3
Communications A	3	M H R 300	3
Ethnic Studies	3	Humanities	3
		Elective	3
		<b>12</b>	<b>16</b>

**Sophomore**

Fall	Credits	Spring	Credits
ACCT I S 100	3	ACCT I S 211	3
GEN BUS 110	1	ACCT I S 301	3
GEN BUS 306	3	FINANCE/ECON 300	3
MARKETNG 300	3	GEN BUS 307	3
ECON 102	4	GEN BUS 360	3
OTM 300	3		
		<b>17</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
ACCT I S 302	3	ACCT I S 310	3
ACCT I S 340	3	ACCT I S 620	3
Science	3	GEN BUS 301	3
Literature	3	Ethics <sup>1</sup>	4
Elective	3	Business Breadth	3
		<b>15</b>	<b>16</b>

**Senior**

Fall	Credits	Spring	Credits
ACCT I S 630	3	ACCT I S 621	3
GEN BUS 302	3	Business Breadth	3
Science	3	Electives	8

Social Science	3
Elective	3
<b>15</b>	

**Total Credits 120**

1  
Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

Note: A student pursuing this plan may end up taking more credits to reach 150 total credits to be eligible to sit for the CPA exam.

**PLAN 4: ACCOUNTING MAJOR WITH IMACC - NONDIRECT ADMIT**

**Freshman**

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
Communications A	3	PSYCH 202	3
GEN BUS 106	1	M H R 300	3
Ethnic Studies	3	Humanities	3
		Elective	3
		<b>12</b>	<b>16</b>

**Sophomore**

Fall	Credits	Spring	Credits
ACCT I S 100	3	ACCT I S 211	3
GEN BUS 110	1	ACCT I S 301	3
GEN BUS 306	3	FINANCE/ECON 300	3
ECON 102	4	GEN BUS 307	3
MARKETNG 300	3	GEN BUS 360	3
OTM 300	3		
		<b>17</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
ACCT I S 302	3	ACCT I S 340	3
ACCT I S 310	3	ACCT I S 620	3
Business Breadth	3	GEN BUS 301	3
Science	3	Ethics <sup>1</sup>	4
Literature	3	Business Breadth	3
		<b>15</b>	<b>16</b>

**Senior**

Fall	Credits	Spring	Credits
ACCT I S 621	3	ACCT I S 600	6
ACCT I S 630	3	ACCT I S 601	3
GEN BUS 302	3	Electives <sup>2</sup>	5
Science	3		
Social Science	3		
		<b>15</b>	<b>14</b>

**Total Credits 120**

1  
Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics



2

We recommend that IMAcc students who complete an internship during the spring semester fulfill these elective credits outside of the spring semester (summer, online, AP credits, etc.).

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

### ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

### ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

*Students may direct questions about the IMAcc program to Katharine Widlak (katharine.widlak@wisc.edu), director of the program, or their academic or career advisor.*

### CAREERS

The most common career paths in accounting include public and corporate accounting.

Public accountants work with clients to review or prepare financial documents. All areas of public accounting work together to inspect control processes and determine accuracy of financial information and compliance with laws, regulations, and generally accepted accounting principles.

They make recommendations regarding business decisions and company finances. Public accounting includes audit/assurance and tax.

Corporate accountants manage an organization's financials and provide expertise in financial reporting and control to assist management in forming and implementing business strategy. Corporate accounting is a broad term that can include many different functions, such as management accounting, internal audit, and financial analysis.

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### ACCOUNTING FACULTY AND STAFF

**For more information about the faculty and their research interests, please visit the** directory (<https://business.wisc.edu/directory/>).

## CERTIFICATION/LICENSURE

### CERTIFIED PUBLIC ACCOUNTANT (CPA)

The state of Wisconsin, and most other states, mandate that candidates for the CPA license must have earned a bachelor's or higher degree and 150 credit hours. There are several degree options for completing these requirements at the University of Wisconsin – Madison, including:

1. **Master of Accountancy (MAcc):** Students who earn the Master of Accountancy degree will meet the CPA requirements in most states. Students can pursue the MAcc degree through different paths, including:
  - a. **Integrated:** Undergraduate business students pursuing the accounting major in the School of Business are eligible to apply for the Integrated Master of Accountancy (IMAcc) program. Students pursuing the IMAcc program will earn a Bachelor of Business Administration (BBA) degree with a major in accounting along with a MAcc degree, typically in about 5-years total. The IMAcc program culminates with students earning a minimum of 150-credits and eligibility for the CPA exam.
  - b. **Stand-alone:** Any student who has earned a four-year undergraduate degree, in any discipline, from an accredited institution, may pursue the MAcc program. Students with an undergraduate major in accounting will complete a 1-year, 30-credit program. Any students applying with a non-business undergraduate major will complete a 2-year, 54-credit program. Upon graduation from the MAcc program, students will have a minimum of 150-credits and will be eligible for the CPA exam.
2. **Undergraduate Business Degree with Accounting Major:** Students can meet the eligibility requirements for the CPA exam by completing a 120-credit BBA degree with a major in accounting along with 30-additional credits to meet the 150-credit requirement. Students pursuing this option should carefully consider the CPA eligibility requirements in the state in which they intend to get certified as many states will require additional accounting credits beyond what is included in the BBA accounting major. Students can earn the additional 30-credits as follows:

- Advanced Credits from High School:** College credits earned in high school that are reflected on a student's UW-Madison transcript may count towards the 30-additional credits for CPA eligibility.
- Double Major:** Students may pursue an additional undergraduate major to achieve the additional 30-credits for CPA eligibility.
- Non-accounting Advanced Degree:** Students who earn an undergraduate degree with a major in accounting and any other advanced degree (specialized masters, MBA, Law School, etc.) may be eligible for the CPA exam as long as they have 150-total credits.
- Undergraduate Credits:** Students may earn the additional 30-credits by taking any undergraduate courses at a degree-granting institution.

Please consult the Department of Accounting and Information Systems (<http://guide.wisc.edu><https://business.wisc.edu/faculty-research/accounting-information-systems/>) for additional information.

## PROFESSIONAL CERTIFICATION/ LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/ Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS - SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Business Fundamentals, Summer Certificate (p. 1474)
- Business, Certificate (p. 1475)
- Consulting, Certificate (p. 1476)
- International Business, Certificate (p. 1477)

### PEOPLE

For a full list of School of Business faculty and staff, visit the school's directory (<https://business.wisc.edu/directory/>).

## BUSINESS FUNDAMENTALS, SUMMER CERTIFICATE

The Summer Certificate in Business Fundamentals (<https://business.wisc.edu/undergraduate/certificates/summer/>) provides basic business education to students pursuing majors outside of the School of Business. The certificate is designed to be completed over multiple summer terms with in-person and online course options, making it a more flexible option for students seeking fundamental business knowledge. Knowledge gained through the Summer Certificate in Business Fundamentals aims to better prepare students for business-related careers upon graduation.

### HOW TO GET IN

The Summer Certificate in Business Fundamentals is not open to students declared in a major in the School of Business or the Certificate in Business (<https://guide.wisc.edu/undergraduate/business/school-wide/business-certificate/>).

To declare students must have completed 12 credits in residence at UW-Madison and have earned a minimum GPA of 2.75.

To declare the certificate, go to the Academic Forms (<https://business.wisc.edu/undergraduate/academic-advising/#forms/>) page and complete the Summer Certificate in Business Fundamentals declaration form.

### REQUIREMENTS

**Students are expected to take 9 of the 12 required credits in-residence during the summer term.**

## REQUIRED COURSES

Code	Title	Credits
ACCT IS 300	Accounting Principles <sup>1</sup>	3
or ACCT IS 100	Introductory Financial Accounting	

Select three of the following:

FINANCE/ECON 300	Introduction to Finance
------------------	-------------------------

MARKETNG 300	Marketing Management
M H R 300	Managing Organizations
OTM 300	Operations Management
R M I 300	Principles of Risk Management

1

Students are strongly encouraged to take ACCT I S 300, unless ACCT I S 100 is required by their major.

## QUALITY OF WORK

A minimum 2.000 GPA on required certificate coursework. Completed courses listed within the certificate curriculum, whether or not they meet a specific requirement, are included in the calculation of the GPA.

A minimum grade of C must be earned in each course.

9 of the 12 required credits must be taken in-residence (UW-Madison on-campus, study abroad, or distance courses).

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Describe basic business measurement as conveyed through accounting methods and reports. Read and interpret a balance sheet and income statement.
2. Describe the basic risk and return relationship and the use of diversification to manage overall risk.
3. Identify and describe basic business strategy and processes.
4. Measure and interpret cost benefit analysis including consideration of time value of money concepts.

## ADVISING AND CAREERS

### ADVISING

Students declared in the Summer Certificate in Business Fundamentals will be assigned to the Business Certificate Advising and Career committees. Further information can be found on the School of Business website (<https://business.wisc.edu/undergraduate/certificates/summer/>).

## BUSINESS, CERTIFICATE

The Certificate in Business (<https://business.wisc.edu/undergraduate/certificates/business/>) (CIB) program provides non-business students the opportunity to earn a concentration in a clearly defined academic program in business. The coursework allows students to develop a foundational understanding of business and apply this to their specific field, such as international studies or engineering. In addition to careers related to their own fields, students who earn the certificate have also found job opportunities in management, marketing, and other business fields.

## HOW TO GET IN

The certificate in business is for **non-business students only**. An application is required to be accepted into the CIB Program. Not all students are admitted, so it is important to make your application as strong as possible. There are no specific courses that must be taken before applying. If a student chooses to take CIB courses before being admitted, the courses will fulfill requirements after admission.

## ELIGIBILITY

To be eligible to apply, students must meet the following requirements:

- 24 degree credits completed at time of application (sophomore standing)
- 12 GPA credits (transfer students must complete a minimum of 12 credits at UW-Madison)
- 3.00 minimum cumulative GPA (This GPA does not guarantee admission to the CIB)
- Grades and GPAs from transfer coursework do not count toward CIB admission
- Currently enrolled UW-Madison student
- Undergraduate, degree-seeking student (non-business)

## APPLICATION

The application (<https://apps.wsb.wisc.edu/undergrad/certificate/application/closed.aspx>) is available the first Friday of the fall semester and due the fourth Friday of the fall semester. Students must complete the application in one sitting.

### The certificate in business application requires an essay on behalf of the applicant.

Admission decisions are based primarily on cumulative UW-Madison GPA and fit for the program as evidenced through the applicant's essay. All admission decisions are final and there is no appeal process for denied students.

Admitted students will be charged a \$150 tuition differential until degree completion/graduation. The tuition differential provides CIB students access to all School of Business resources, including career coaches and academic advisors within the Undergraduate Program.

## REQUIREMENTS

The CIB program consists of six courses (four core courses and two additional breadth courses), for a total of 18 credits. Students are also responsible for any pre-requisite courses needed for core or breadth courses. Specific pre-requisites for each course can be found by clicking on the hyperlinked courses below or by searching for the course in Guide.

Students must take at least 12 of the 18 required credits in residence at UW-Madison. Study abroad courses taken through a UW-Madison-sponsored program will count toward the 12 credits in residence.

### Students must earn a grade of "C" or better in all required courses for the CIB.

## REQUIRED COURSES

Code	Title	Credits
ACCT I S 300 or ACCT I S 100	Accounting Principles <sup>1</sup> Introductory Financial Accounting	3
FINANCE/ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
Breadth Course <sup>2</sup>		3
Breadth Course <sup>2</sup>		3
<b>Total Credits <sup>3</sup></b>		<b>18</b>

### 1

CIB students are strongly encouraged to take ACCT I S 300, unless ACCT I S 100 is required by their major. Please note, however, that ACCT I S 100 is a requirement for many other upper-level accounting and finance courses. Students planning to take additional accounting or finance courses, should consult with the CIB advisor.

### 2

Breadth Requirement information:

- Breadth courses must be at least 3 credits
- Breadth courses must be School of Business courses (or courses cross-listed with School of Business). Breadth courses may be from the same department as the core courses
- Breadth courses must be from *two different School of Business departments* (or cross-listed with two different School of Business departments)
- Courses taken at another institution must be directly equivalent to a UW–Madison business course and title (i.e., not elective credit)

### 3

Due to pre-requisites for some of the required courses, total credits to complete the Certificate in Business may be more than 18.

## EXCLUSIONS

The following courses **may not be used** to satisfy the CIB Breadth Courses requirement:

Code	Title	Credits
GEN BUS 306	Business Analytics I	3
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	3
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
GEN BUS 365	Contemporary Topics	3
ACCT I S 211	Introductory Managerial Accounting	3
Any business course numbered 399		
Any business course cross-listed with a foreign language		

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. (Accounting) Apply accounting principles to develop decision-useful accounting information that supports implementation of organizational strategy.
2. (Finance) Know and have a deep understanding of the net present value model and its components, and be able to apply the model to the valuation of assets.
3. (Management and Human Resources) Know and be able to illustrate how organizational success is a function of strategy, organizational culture, human resource management, leadership, teams, structure, managing change, and entrepreneurship.
4. (Marketing) Answer the "big questions" of the marketing planning process by explaining and demonstrating mastery of: 1) why marketing is a strategy and not a slogan, 2) how marketing is personal, 3) the importance of balancing risk, reward, cost, and time to optimize the 4 p's (product, price, place, and promotion), and 4) how marketing is a conduit between customer needs and company wants.

## ADVISING AND CAREERS

### ADVISING

Students admitted to the Certificate in Business will be assigned to the Business Certificate Advising and Career committees. Further information can be found on the School of Business website (<https://business.wisc.edu/undergraduate/certificates/business/>).

### CAREERS

Certificate students are qualified for many entry-level business positions. While the career opportunities available to CIB students are vast, common business careers pursued following graduation include:

- Advertising
- Business analyst–information systems
- Business development
- Commercial and retail banking
- Consulting
- Event management
- Human resources
- Investment management
- Management
- Project lead/manager–information systems
- Retail (stores and corporate)
- Underwriting/claims adjusting

Other CIB students pursue careers in education, engineering, the nonprofit sector, or the healthcare industry, to name a few. Some CIB students attend graduate school following graduation in programs including law school, public policy, medical school, engineering, social work, and more.

## CONSULTING, CERTIFICATE

The Consulting Certificate from the School of Business helps students develop a consultative process and mindset that integrates critical

skills in the areas of project management, business communication, advanced analytics and/or strategy and technology. The Consulting Certificate will prepare students to seek answers to questions in order to define the problem, gather necessary data and information, convert the information into decisions, and successfully communicate that answer in a form appropriate to the audience. Upon completion of the certificate, students will understand how businesses operate, how to communicate successfully with others in business, and will be familiar with the concept of business goals and objectives. This perspective is central to the design and differentiation of our certificate. The goal of this certificate program is to be an add-on to any undergraduate major at UW-Madison so students can apply their major to the field of consulting.

## HOW TO GET IN

The consulting certificate is open to UW-Madison undergraduate students. Space in the consulting certificate program is limited so an application is required to be accepted into the program. To find out more about the application process for this certificate, please visit the Undergraduate Certificate (<https://business.wisc.edu/undergraduate/certificates/>) page of the School of Business.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS REQUIRED COURSES

Code	Title	Credits
GEN BUS 370	Case Interview Analysis	1
OTM 452	Project Management	3
<i>Case Analysis Course</i>		
M H R 412 or M H R 423	Management Consulting Strategic Management	3
<i>Analytical Thinking Course</i>		
<i>Another Case Analysis, Analytical Thinking or Elective Course</i>		3
<b>Total Credits</b>		<b>13</b>

#### Analytical Thinking Course Options

Code	Title	Credits
ACCT IS 640	Foundation in Accounting Analytics	3
ACT SCI 655	Health Analytics	3
ISY E 412	Fundamentals of Industrial Data Analytics	3
ISY E 516	Introduction to Decision Analysis	3
ISY E 620	Simulation Modeling and Analysis	3
M H R 614	People Analytics	3
OTM 453	Operations Analytics	3
R M I 660	Risk Analytics and Behavioral Science	3

#### Elective Course Options

Code	Title	Credits
INFO SYS 322	Introduction to Databases	3
ISY E 313	Engineering Economic Analysis	3
ISY E 515	Engineering Management of Continuous Process Improvement	3

ISY E 520	Quality Assurance Systems	3
ISY E 604	Special Topics in Manufacturing and Supply Chain Management	3
M H R 401	The Management of Teams	3
M H R 420	Managing Change and Organizational Effectiveness	3
M H R 422	Entrepreneurial Management	3
M H R 628	Negotiations	3
OTM/ MARKETNG 421	Fundamentals of Supply Chain Management	3
OTM/ MARKETNG 427	Information Technology in Supply Chains	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
R M I 655	Risk Financing Techniques	3
R M I 670	Cyber Risk & Regulations	3

A minimum 3.0 GPA must be earned on all course work used to meet the requirements (13 credits) of the certificate program. All certificate credits must be earned in residence at UW-Madison.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Apply critical thinking skills to complex real-world problems to develop strategies and make actionable recommendations to solve business issues based on a variety of important analytical tools and techniques.
2. Develop case analysis skills in diagnosing business issues and managerial problems, propose workable solutions, and explain and defend solutions.
3. Apply and evaluate project management techniques, and have a basic understanding of the formal and informal tools available to manage time, resources, and stakeholders in executing a project.
4. Develop and practice aspects of successful communication: writing, presenting, and listening. A theoretical foundation provides a method of deep audience analysis; apply that analysis when producing a variety of written genres and when preparing content for formal presentation.

## ADVISING AND CAREERS

Students who have declared the Consulting Certificate will be assigned a School of Business academic advisor and career coach.

## INTERNATIONAL BUSINESS, CERTIFICATE

The Certificate in International Business helps students develop an understanding of the global macroeconomic environment and the complexities of cross-border transactions. International Business is an

interdisciplinary field and courses focus on knowledge acquisition as well as application of concepts. The embedded study abroad requirement helps students develop cross-cultural awareness and skills, and gain a regional perspective that often underpins successful adaptation for local markets.

International business careers span industries and economic sectors, as well as business functions and geographies, and often include domestic positions with global scope. Positions in international business involve strategy, leadership, research, government relations, creativity, technical expertise, and cultural fluency.

## HOW TO GET IN

To declare this certificate, students must be admitted to UW–Madison and the School of Business (WSB). To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (<https://guide.wisc.edu/undergraduate/business/#enteringtheschooltext>). Contact the Wisconsin BBA Advising Center listed under the Advising and Careers tab for more information or to declare the certificate.

Students may not earn this certificate in conjunction with the BBA in Business: International Business, and/or the exclusively online BBAs in Business Administration–Human Resources, Business Administration–Management, and Business Administration–Marketing.

## REQUIREMENTS

A minimum 2.000 GPA must be earned on required certificate coursework. Completed courses listed within the certificate curriculum, whether or not they meet a specific requirement, are included in the calculation of the GPA.

At least 50% of the certificate credits must be earned in residence at UW–Madison as a degree-seeking undergraduate. All certificate courses must be graded; credit/no credit and pass/fail do not qualify.

Completion of this certificate satisfies one of the business breadth courses needed for the BBA.

Code	Title	Credits
INTL BUS 200	International Business	3
INTL BUS 450	Study Abroad in International Business <sup>1</sup>	1
<b>6 Additional Credits of INTL BUS<sup>2</sup></b>		<b>6</b>
<b>Global Interdisciplinary Perspective</b>		<b>3</b>
Select one course from the following:		
ANTHRO 104	Cultural Anthropology and Human Diversity	
GEOG 340	World Regions in Global Context	
INTL ST 101	Introduction to International Studies	
POLI SCI 140	Introduction to International Relations	

**Total Credits** **13**

<sup>1</sup>

This course must be taken during the required study abroad semester. The study abroad requirement must be satisfied through an approved program.

2

A maximum of 3 credits of INTL BUS 365 Contemporary Topics can be applied to this 6 credit requirement.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Apply international business theories and concepts to a variety of business situations.
2. Formulate business strategies appropriate to global, regional and local contexts.
3. Demonstrate the skills necessary for successful cross-cultural adaptation into a host country.

## PEOPLE

### FACULTY AND STAFF IN INTERNATIONAL BUSINESS

**For more information about the faculty and their teaching and research interests, please visit the** [directory](https://business.wisc.edu/directory/) (<https://business.wisc.edu/directory/>).

## FINANCE

The finance curriculum prepares students for a wide variety of career pathways including corporate finance, the investments and securities industry, the management of financial institutions including banks and insurance companies, and the evolving financial technology sector. The theory of finance and its applications are emphasized. Students learn about: security analysis and valuation, security trading, financial markets and government policies, financial forecasting, capital structure, financial risk management, venture capital, security issuance, international finance and financial technology.

## DEGREES/MAJORS/CERTIFICATES

- Business: Finance, Investment, and Banking, BBA (p. 1478)

## BUSINESS: FINANCE, INVESTMENT, AND BANKING, BBA

The finance, investment, and banking (<https://business.wisc.edu/undergraduate/majors/finance-investment-banking/>) curriculum prepares students for a wide variety of career pathways including corporate finance, the investments and securities industry, the management of financial institutions including banks and insurance companies, and the evolving financial technology sector. The theory of finance and its applications are

emphasized. Students learn about security analysis and valuation, security trading, financial markets and government policies, financial forecasting, capital structure, financial risk management, venture capital, security issuance, international finance, and financial technology.

A significant part of the coursework teaches students to understand risk and uncertainty, both at an intuitive level and at a technical level. More important, students learn to construct models of financial decisions—e.g., an investor's portfolio choice problem, the issuance of securities by corporations, and the structure of financial investments by banks.

## RELATED STUDENT ORGANIZATIONS

Capital Management Club (<https://www.cmc-uwmadison.com/>)  
 Fantasy Sports & Finance Club (<https://win.wisc.edu/organization/fsf/>)  
 Finance & Investment Society (<https://win.wisc.edu/organization/fisw/>)  
 Forex and Investment Club (<https://win.wisc.edu/organization/forexclub/>)  
 Investment Banking Club (<https://www.wiscibc.com/>)  
 Sales & Trading and Asset Management Society (<https://www.stamwisconsin.com/>)  
 Society of Personal Investments (<https://win.wisc.edu/organization/SPI/>)  
 Wealth Management Group (<https://www.badgerwmg.org/>)  
 Women in Finance and Accounting (<https://win.wisc.edu/organization/WIFA/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

While not required for declaration, students are encouraged to enroll in these courses in preparation for the major as they serve as a foundation for enrollment in subsequent courses.

Code	Title	Credits
<b>Business Analytics</b>		
GEN BUS 306	Business Analytics I	3
	Or approved Business Analytics course for Actuarial Science major, Economics major, or Economics certificate students. <sup>1</sup>	
<b>Calculus</b>		
MATH 213	Calculus and Introduction to Differential Equations	3
	or MATH 222	Calculus and Analytic Geometry 2

<sup>1</sup>

Students pursuing an additional major in Actuarial Science or Economics may opt for a different Business Analytics course. The approved list is detailed on the School of Business Requirements (p. 1465) page.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for

living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |   |
|-------------------|---|
| General Education | • Breadth—Humanities/Literature/Arts: 6 credits   |
|                   | • Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits |
|                   | • Breadth—Social Studies: 3 credits   |
|                   | • Communication Part A & Part B *   |
|                   | • Ethnic Studies *  |
|                   | • Quantitative Reasoning Part A & Part B *  |

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## FINANCE MAJOR REQUIREMENTS

See the Advising and Careers tab (p. 1481) for helpful progression advice or the Four-Year Plan tab (p. 1480) to see a sample on how to graduate in four years.

Code	Title	Credits
MATH 213	Calculus and Introduction to Differential Equations	3
	or MATH 222	Calculus and Analytic Geometry 2
ACCT IS 301	Financial Reporting I	3
FINANCE 305	Financial Markets, Institutions and Economic Activity	3
FINANCE/ ECON 320	Investment Theory	3
FINANCE 325	Corporation Finance	3

FINANCE 330	Derivative Securities	3
Complete two 3-credit Finance courses numbered above 330 <sup>1</sup>		6

**Total Credits** **24**

<sup>1</sup>

Each course must be at least 3 credits each.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Apply proper controls and best practices in the governance of modern organizations while recognizing the impact of finance on business and society.
2. Explain the workings of financial markets, the role of financial intermediaries, and market mechanisms to create and trade securities.
3. Evaluate the risk and return of financial securities and transactions.
4. Interpret models of asset pricing and demonstrate how to value financial securities.
5. Learn and apply best practices in data-driven decisions about investments, financing and payout policies, corporate restructuring, and risk management.
6. Identify the role of financial technology in shaping the financial system and financial operations.
7. Formulate a comprehensive financial plan for individuals or business entities.

## FOUR-YEAR PLAN

Please use this recommended course sequencing guide as a reference point as you work with your academic advisor to plan your schedule throughout your BBA experience. This guide is intended for students whose primary major and career interests are in finance. Many business breadth and core finance courses are recommended early on so that students are prepared for the internship interview process which begins as early as sophomore year. There are several factors that may impact your

optimal course sequencing plan, so please consult with your academic advisor.

### Freshman

Fall	Credits	Spring	Credits	Summer	Credits
MATH 211 or 221	5	MATH 213 or 222	3	3-4	See footnote 3
PSYCH 202	3	GEN BUS 306	3		
ECON 101	4	ACCT I S 100	3		
GEN BUS 110 <sup>1</sup>	1	ECON 102	3-4		
GEN BUS 106	1	FINANCE 200 <sup>2</sup>	1		
Communications A	3-4				
	<b>17-18</b>		<b>13-15</b>		<b>0</b>

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
FINANCE 205 <sup>2</sup>	1	FINANCE/ECON 320	3	3	Internship
FINANCE/ECON 300	3	FINANCE 325	3		
FINANCE 305	3	MARKETNG 300, M H R 300, or OTM 300	3		
ACCT I S 301	3	GEN BUS 360	3		
GEN BUS 307	3	Ethnic Studies	3		
MARKETNG 30C M H R 300, or OTM 300	3				
	<b>16</b>		<b>15</b>		<b>0</b>

### Junior

Fall	Credits	Spring	Credits	Summer	Credits
FINANCE 330	3	MARKETNG 300, M H R 300, or OTM 300	3	3	Internship
Finance Elective <sup>4</sup>	3	Business Breadth	3		
ACCT I S 211	3	Ethics <sup>5</sup>	4		
Electives	6	Humanities or Social Science Elective	3		
	<b>15</b>		<b>16</b>		<b>0</b>

### Senior

Fall	Credits	Spring	Credits
Finance Elective <sup>4</sup>	3	Business Breadth	3
GEN BUS 301	3	Humanities, Literature, or Social Science	3
Humanities, Literature, or Social Science	3	Science	3
Science Elective	3	Electives	4
	<b>15</b>		<b>13</b>

**Total Credits 120-123**



1

Pre-business admits will take this course in the term of admission to the Wisconsin School of Business.

2

This is the recommended course but any elective is acceptable.

3

Taking summer courses is an option to reduce credit loads during the traditional semesters. Ideal classes to take over the summer include: MARKETNG 300, M H R 300, OTM 300, ACCT I S 211, ECON 102 and Business Breadth.

4

This can be any 3 credit FINANCE course numbered above 330.

5

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

### ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

### ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

## PLANNING FOR THE FINANCE MAJOR

In preparation for completing the major requirements for the Finance major, taking these courses early will help you graduate in a timely fashion.

Code	Title	Credits
<b>Prior to enrolling in FINANCE/ECON 320, FINANCE 325, or FINANCE 330, plan to take:</b>		
FINANCE/ ECON 300	Introduction to Finance	3
MATH 213	Calculus and Introduction to Differential Equations	3
or MATH 222	Calculus and Analytic Geometry 2	
GEN BUS 307	Business Analytics II (can be taken concurrently) <sup>1</sup>	3
<b>Prior to enrolling in FINANCE 325 take:</b>		
ACCT I S 301	Financial Reporting I	3
<b>Prior to your third year, complete:</b>		
FINANCE/ ECON 300	Introduction to Finance	3
GEN BUS 307	Business Analytics II <sup>1</sup>	3
ACCT I S 301	Financial Reporting I	3

#### Other guidance:

It is recommended to take FINANCE/ECON 320 before or concurrently with FINANCE 330; FINANCE 330 is the most quantitatively challenging of the three required courses beyond principles.

If the mathematics requirement has not been completed prior to admission to the School of Business, then you must take MATH 213 and MATH 222 as early as possible.

Prior to your summer internship it can be useful to complete certain finance electives that match your internship and/or career focus area. Please discuss with your advisor.

1

Students pursuing an additional major in Actuarial Science or Economics may opt for a different Business Analytics course. The approved list are detailed on the School of Business Requirements (p. 1465) page.

### CAREERS

Finance is the integration of time, returns and risk and how they are interrelated. Two pressing questions in finance are:

- What do I invest in?
- How do I pay for it?

Organizations that focus on finance include banks, credit card companies, insurance companies, consumer finance companies, corporations, stock brokerages, investment funds, government sponsored enterprises, education, and individuals.

Students may pursue careers in many different industries, including but not limited to:

- Commercial and retail banking
- Corporate finance
- Investment banking
- Investment management
- Investment research
- Global markets (sales and trading)
- Financial technology/cryptocurrency
- Wealth management and financial planning

Find more details about these industries on the BBA Finance website (<https://business.wisc.edu/undergraduate/majors/finance-investment-banking/>).

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### FACULTY AND STAFF IN FINANCE

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## INTERNATIONAL BUSINESS

### DEGREES/MAJORS/CERTIFICATES

- Business: International Business, BBA (p. 1482)

## BUSINESS: INTERNATIONAL BUSINESS, BBA

**Admissions to the Business: International Business, BBA is suspended as of fall 2023 and will be discontinued as of fall 2028. If you have any questions, please contact the department.**

The international business (<https://business.wisc.edu/undergraduate/majors/international-business/>) major helps students develop an understanding of the global macroeconomic environment and the complexities of cross-border transactions. International business is an interdisciplinary field and courses focus on knowledge acquisition as well as application of concepts. A selected regional emphasis provides a platform to gain language and area studies knowledge that often underpins successful adaptation for regional and local markets. The embedded study abroad requirement helps students develop cross-cultural awareness and skills.

International business careers span industries and economic sectors, and business functions and geographies, and often include domestic positions with global scope. Positions in international business involve strategy, leadership, research, government relations, creativity, technical expertise, and cultural fluency.

## HOW TO GET IN

**Admissions to the Business: International Business, BBA is suspended as of fall 2023 and will be discontinued as of fall 2028. If you have any questions, please contact the department.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	

Business Prep  
Business Core  
Business Breadth

## INTERNATIONAL BUSINESS MAJOR REQUIREMENTS

International business responsibilities and careers typically arise after graduates first develop skills in a functional area of business, such as marketing, finance, management and operations. This functional expertise typically drives initial career placement and advancement. Therefore, the international business major must be paired with another major within the School of Business.

Some international business issues are global in nature, but many challenges and opportunities faced by multinational firms are regional and local in nature and often arise due to differences in institutions, politics and cultures among nations. This 'glocal' reality means that international business leaders must possess both global and local awareness. To develop some perspective on regional and local cultural issues, international business majors select a geographic region of emphasis and select language and area studies courses accordingly. Studying abroad on an approved program in the selected region of emphasis for one fall or spring semester is also required for the major.

A student must complete a minimum of 24 credits, distributed as follows:

Code	Title	Credits
INTL BUS 200	International Business	3
<b>International Business Coursework</b>		<b>9</b>
Minimum of 3 credits must be from the International Business Department		
INTL BUS/ GEN BUS 320	Intercultural Communication in Business	
INTL BUS 365	Contemporary Topics	
INTL BUS/ M H R 403	Global Issues in Management	
INTL BUS/ MARKETNG 420	Global Marketing Strategy	
INTL BUS/ REAL EST 430	International Real Estate	
INTL BUS/ FINANCE 445	Multinational Business Finance	
INTL BUS/A A E/ ECON 462	Latin American Economic Development	
A A E/ INTL ST 373	Globalization, Poverty and Development	
A A E/ INTL ST 374	The Growth and Development of Nations in the Global Economy	
ECON 309	Study Abroad in Intermediate Economics	
ECON 409	Study Abroad in Advanced Economics	
ECON 364 or ECON 464	Survey of International Economics International Trade	
ECON 467	International Industrial Organizations	

ECON/A A E 473 Economic Growth and Development in Southeast Asia

ECON/A A E 474 Economic Problems of Developing Areas

### Global Interdisciplinary Perspective **3**

Select one course from the following:

GEOG 340 World Regions in Global Context

INTL ST 101 Introduction to International Studies

ANTHRO 104 Cultural Anthropology and Human Diversity

POLI SCI 140 Introduction to International Relations

### Coursework in Foreign Language and Area Studies **9**

Select 9 credits of approved coursework for the specified region (found below)

#### Semester Abroad

Complete a semester abroad on an approved program within the region of emphasis selected (found below)

### Total Credits **24**

## REGIONS OF EMPHASIS

Students must take 9 credits of language or area studies courses applicable to the region of emphasis. It is recommended to take at least one 3 credit language course applicable to your study abroad destination (unless the official language of that nation is English). Students must also choose a study abroad program that aligns with their region of emphasis.

### AFRICA

#### Study Abroad Programs

- South Africa, Cape Town: Univ of Cape Town Exchange (ISP-CPTOWN)

#### Language Courses

Code	Title	Credits
<b>Arabic</b>		
AFRICAN 321	First Semester Arabic	
AFRICAN 322	Second Semester Arabic	
AFRICAN 323	Third Semester Arabic	
AFRICAN 324	Fourth Semester Arabic	
AFRICAN 325	Colloquial Arabic	
AFRICAN 329	Fifth Semester Arabic	
AFRICAN 330	Sixth Semester Arabic	

#### Hausa

AFRICAN 361 First Semester Hausa  
AFRICAN 362 Second Semester Hausa

#### Swahili

AFRICAN 331 First Semester Swahili  
AFRICAN 332 Second Semester Swahili  
AFRICAN 333 Third Semester Swahili  
AFRICAN 334 Fourth Semester Swahili

#### Wolof

AFRICAN 391 First Semester-A Language of West Africa  
AFRICAN 392 Second Semester-A Language of West Africa

AFRICAN 393	Third Semester-A Language of West Africa
AFRICAN 394	Fourth Semester-A Language of West Africa
<b>Zulu</b>	
AFRICAN 335	First Semester-A Language of Southern Africa
AFRICAN 336	Second Semester-A Language of Southern Africa
AFRICAN 337	Third Semester-A Language of Southern Africa
AFRICAN 338	Fourth Semester-A Language of Southern Africa

### Area Studies Courses

Code	Title	Credits
A A E/ECON 477	Agricultural and Economic Development in Africa	3
AFRICAN 100	Introduction to African Cultural Expression	3
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN 201	Introduction to African Literature	3
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 212	Introduction to African Popular Culture	3
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN 300	African Literature in Translation	3
AFRICAN 303	African Literature and Visual Culture	3
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 402	Theory of African Literature	3-4
AFRICAN 405	Topics in African Cultural Studies	3
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4

AFRICAN/ FRENCH 440	African/Francophone Film	3
AFRICAN/ PORTUG 451	Lusophone African Literature	3
AFRICAN 453	Modern African Literature in English	3-4
AFRICAN 500	Language and Society in Africa	3-4
AFRICAN 605	Advanced Topics in African Cultural Studies	3
AFRICAN 609	Advanced Topics in Global Black Music Studies	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ DANCE/MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER 675	Selected Topics in Afro-American Culture	3
ART HIST 579	Proseminar in African Art	3
DANCE 118	African Dance	1
DANCE/ THEATRE 218	African Dance Performance	2
GEOG 355	Africa, South of the Sahara	3
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
POLI SCI 329	African Politics	3-4
POLI SCI 455	African International Relations	3-4

## EAST ASIA

### Study Abroad Programs

- China, Beijing: Tsinghua University Exchange (ISP-TSIBUS)
- Hong Kong: City U Hong Kong Exchange (ISP-CITHKB)
- Hong Kong: Hong Kong Univ Sci & Tech Exch (ISP-HKUSTB)
- Japan, Tokyo: Sophia University Exchange (ISP-SOPHIA)
- South Korea, Seoul: Yonsei University Exchange (ISP-SEOYON)

### Language Courses

Code	Title	Credits
<b>Chinese</b>		
ASIALANG 101	First Semester Chinese	
ASIALANG 102	Second Semester Chinese	
ASIALANG 110	Elementary Chinese I	
ASIALANG 111	Elementary Chinese II	
ASIALANG 201	Third Semester Chinese	

ASIALANG 202	Fourth Semester Chinese
ASIALANG 301	Fifth Semester Chinese
ASIALANG 302	Sixth Semester Chinese
ASIALANG 378	Chinese Conversation
ASIALANG 379	Business Chinese
ASIALANG 401	Seventh Semester Chinese
ASIALANG 402	Eighth Semester Chinese
ASIAN 371	Topics in Chinese Literature
ASIAN 372	Topics in Chinese: Study Abroad
ASIAN 375	Survey of Chinese Film
ASIAN 432	Introduction to Chinese Linguistics
ASIAN 571	Readings in Classical Chinese Literature
ASIAN 631	History of the Chinese Language
ASIAN 641	History of Chinese Literature I
ASIAN 671	Literary Studies in Chinese Drama
ASIAN 672	Studies in Chinese Fiction
ASIAN 712	Teaching of Chinese

**Japanese**

ASIALANG 103	First Semester Japanese
ASIALANG 104	Second Semester Japanese
ASIALANG 113	First Semester Elementary Japanese
ASIALANG 114	Second Semester Elementary Japanese
ASIALANG 203	Third Semester Japanese
ASIALANG 204	Fourth Semester Japanese
ASIALANG 303	Fifth Semester Japanese
ASIALANG 304	Sixth Semester Japanese
ASIALANG 376	Japanese Conversation
ASIALANG 377	Business Japanese Communication
ASIALANG 403	Seventh Semester Japanese
ASIAN 355	Modern Japanese Literature
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature
ASIAN 358	Language in Japanese Society
ASIAN 361	Love and Politics: The Tale of Genji
ASIAN 373	Topics in Japanese: Study Abroad
ASIAN 434	Introduction to Japanese Linguistics
ASIAN 573	Readings in Classical Japanese Literature
ASIAN 713	Teaching of Japanese as a Foreign Language

**Korean**

ASIALANG 105	First Semester Korean
ASIALANG 106	Second Semester Korean
ASIALANG 205	Third Semester Korean
ASIALANG 206	Fourth Semester Korean
ASIALANG 305	Fifth Semester Korean
ASIALANG 306	Sixth Semester Korean
ASIALANG 405	Seventh Semester Korean
ASIALANG 406	Eighth Semester Korean

**Area Studies Courses**

Code	Title	Credits
ANTHRO 357	Introduction to the Anthropology of Japan	3-4
ART HIST 203	Survey of Asian Art	3-4
ART HIST 372	Arts of Japan	3-4
ART HIST 411	Topics in Asian Art	3-4
ART HIST 475	Japanese Ceramics and Allied Arts	3
ART HIST 575	Proseminar in Japanese Art	3
ART HIST 576	Proseminar in Chinese Art	3
ASIAN/HISTORY 103	Introduction to East Asian History: China	3-4
ASIAN/HISTORY 104	Introduction to East Asian History: Japan	3-4
ASIAN/HISTORY/POLI SCI 255	Introduction to East Asian Civilizations	3-4
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2
ASIAN 301	Social Studies Topics in East Asian Studies	1-3
ASIAN/HISTORY/RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/HISTORY 341	History of Modern China, 1800-1949	3-4
ASIAN/HISTORY 342	History of the Peoples Republic of China, 1949 to the Present	3-4
ASIAN/RELIG ST 350	Introduction to Taoism	3-4
ASIAN 351	Survey of Classical Chinese Literature	3
ASIAN 352	Survey of Modern Chinese Literature	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3
ASIAN 354	Early Modern Japanese Literature	3
ASIAN 375	Survey of Chinese Film	3
ASIAN 433	Topics in East Asian Visual Cultures	3
ASIAN/HISTORY 454	Samurai: History and Image	3-4
ASIAN/HISTORY 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
ASIAN 563	Readings in Modern Japanese Literature	3
ASIAN 672	Studies in Chinese Fiction	3
HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
LITTRANS 261	Survey of Chinese Literature in Translation	3
LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 263	Survey of Japanese Literature in Translation	3
LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS 368	Modern Japanese Fiction	3

LITTRANS 373	Topics in Japanese Literature	3
LITTRANS 374	Topics in Korean Literature	3
POLI SCI 346	China in World Politics	3-4
SOC 225	Contemporary Chinese Society	3
THEATRE 526	The Theatres of China and Japan	3

## LATIN AMERICA AND THE CARIBBEAN

### Study Abroad Programs

- Argentina, Buenos Aires: IES Buenos Aires LA Soc & Cult (ISP-IESARG)

### Language Courses

Code	Title	Credits
<b>Spanish</b>		
SPANISH 101	First Semester Spanish	
SPANISH 102	Second Semester Spanish	
SPANISH 203	Third Semester Spanish	
SPANISH 204	Fourth Semester Spanish	
SPANISH 223	Introduction to Hispanic Cultures	
SPANISH 224	Introduction to Hispanic Literatures	
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	
SPANISH 311	Advanced Language Practice	
SPANISH 319	Topics in Spanish Language Practice	
SPANISH 320	Spanish Phonetics	
SPANISH 321	The Structure of Modern Spanish	
SPANISH 322	Survey of Early Hispanic Literature	
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	
SPANISH 324	Survey of Modern Spanish Literature	
SPANISH 325	Advanced Conversation	
SPANISH 326	Survey of Spanish American Literature	
SPANISH 359	Spanish Business Area Studies	
SPANISH/ MEDIÉVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages	
SPANISH 435	Cervantes	
SPANISH 453	Literature of the Twentieth Century	
SPANISH 460	Literatura Hispanoamericana	
SPANISH 461	The Spanish American Short Story	
SPANISH 462	Spanish American Theater and Drama	
SPANISH 464	Spanish American Poetry and Essay	
SPANISH 466	Topics in Spanish American Literature	
SPANISH/ CHICLA 467	US Latino Literature	
SPANISH 468	Topics in Hispanic Culture	

SPANISH/ CHICLA 469	Topics in Latinx Culture
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics
SPANISH 472	Hispanic Screen Studies
SPANISH 473	Study Abroad in Spanish Language Practice
SPANISH 474	Study Abroad in Spanish Linguistics
SPANISH 475	Study Abroad in Hispanic Literatures
SPANISH 476	Study Abroad in Hispanic Cultures
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
SPANISH 501	Survey of Spanish American Literature from the Discovery to Modernismo
SPANISH 502	Survey of Spanish American Literature from Modernismo to the Present
SPANISH/ MEDIÉVAL 503	Survey of Medieval Literature
SPANISH/ MEDIÉVAL 504	Survey of Medieval Literature
SPANISH 505	Advanced Survey of Spanish Literature
SPANISH 506	Advanced Survey of Spanish Literature
SPANISH/ MEDIÉVAL 541	Old Spanish
SPANISH 543	Spanish Phonology
SPANISH 544	Contemporary Issues in Applied Spanish Linguistics
SPANISH 545	College Teaching of Spanish
SPANISH 548	Structure of the Spanish Language: Morphology and Syntax
SPANISH 564	Theory and Practice of Hispanic Theatre
SPANISH 627	Historia de Teoría Literaria: de Platon Al Siglo XVIII
SPANISH 628	Historia de Teoría Literaria: Siglos XIX-XX
SPANISH 630	Topics in Hispanic Linguistics
SPANISH 681	Senior Honors Thesis
SPANISH 682	Senior Honors Thesis
SPANISH 691	First Semester Senior Thesis
SPANISH 692	Second Semester Senior Thesis
SPANISH 699	Directed Study
<b>Portuguese</b>	
PORTUG 101	First Semester Portuguese
PORTUG 102	Second Semester Portuguese
PORTUG 201	Third Semester Portuguese
PORTUG 202	Fourth Semester Portuguese
PORTUG 207	Portuguese for Business
PORTUG 221	Introduction to Luso-Brazilian Literatures

PORTUG 225	Third Year Conversation and Composition		
PORTUG 226	Third Year Conversation and Composition		
PORTUG 301	Intensive Portuguese		
PORTUG 302	Intensive Portuguese		
PORTUG 311	Fourth Year Composition and Conversation		
PORTUG 312	Fourth Year Composition and Conversation		
PORTUG 330	History of the Portuguese Language		
PORTUG 411	Survey of Portuguese Literature before 1825		
PORTUG 412	Survey of Brazilian Literature before 1890		
PORTUG/ FRENCH/ ITALIAN/ SPANISH 429	Introduction to the Romance Languages		
PORTUG/ GEN&WS 450	Brazilian Women Writers		
PORTUG/ AFRICAN 451	Lusophone African Literature		
PORTUG 467	Survey of Portuguese Literature since 1825		
PORTUG 468	Survey of Brazilian Literature since 1890		
PORTUG 640	Topics in Luso-Brazilian Literature		
<b>Quechua</b>			
LACIS/ ANTHRO 361	Elementary Quechua		
LACIS/ ANTHRO 362	Elementary Quechua		
LACIS/ ANTHRO 363	Intermediate Quechua		
LACIS/ ANTHRO 364	Advanced Quechua		
<b>Yucatec Maya</b>			
LACIS/ ANTHRO 376	First Semester Yucatec Maya		
LACIS/ ANTHRO 377	Second Semester Yucatec Maya		
<b>Area Studies Courses</b>			
<b>Code</b>	<b>Title</b>	<b>Credits</b>	
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4	
AGRONOMY 377	Global Food Production and Health	3	
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3	
GEN&WS/ PORTUG 450	Brazilian Women Writers	3	
GEN&WS/ PORTUG 460	Carmen Miranda	3	
GEOG 348	Latin America	4	
HISTORY 241	Latin America from 1780 to 1940	4	
HISTORY/INTL ST/ LACIS 242	Modern Latin America	4	
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	
HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3	
HISTORY 403	Immigration and Assimilation in American History	3-4	
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4	
HISTORY 533	Multi-Racial Societies in Latin America	3-4	
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3	
LACIS/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4	
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3	
LITTRANS 252	Spanish Literary Masterpieces in Translation	3	
POLI SCI 321	Latin-American Politics	3-4	
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3	
POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3	
POLI SCI/ INTL ST 431	Contentious Politics	3-4	
PORTUG 221	Introduction to Luso-Brazilian Literatures	4	
PORTUG 330	History of the Portuguese Language	3	
PORTUG 361	Portuguese Civilization	3	
PORTUG 362	Brazilian Civilization	3	
PORTUG 364	Historical and Cultural Traditions of Brazil	2	
PORTUG 467	Survey of Portuguese Literature since 1825	3	
PORTUG 468	Survey of Brazilian Literature since 1890	3	
PORTUG 573	Topics in Portuguese: Study Abroad	1-6	
PORTUG 640	Topics in Luso-Brazilian Literature	3	
PORTUG 642	Topics in Luso-Brazilian Culture	3	
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3	
SPANISH 223	Introduction to Hispanic Cultures	3	
SPANISH 224	Introduction to Hispanic Literatures	3	

SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 326	Survey of Spanish American Literature	3
SPANISH 359	Spanish Business Area Studies	3
SPANISH 361	Spanish Civilization	3
SPANISH 363	Spanish American Civilization	3
SPANISH 435	Cervantes	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH 460	Literatura Hispanoamericana	3
SPANISH 461	The Spanish American Short Story	3
SPANISH 462	Spanish American Theater and Drama	3
SPANISH 464	Spanish American Poetry and Essay	3
SPANISH 466	Topics in Spanish American Literature	1
SPANISH 468	Topics in Hispanic Culture	3
SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SPANISH 472	Hispanic Screen Studies	3
SPANISH 475	Study Abroad in Hispanic Literatures	1-4
SPANISH 476	Study Abroad in Hispanic Cultures	1-4
SPANISH 502	Survey of Spanish American Literature from Modernismo to the Present	3
SPANISH 505	Advanced Survey of Spanish Literature	3
SPANISH 506	Advanced Survey of Spanish Literature	3

## MIDDLE EAST

### Study Abroad Programs

- Israel, Tel Aviv: Tel Aviv University (ISP-AVIV)

### Language Courses

Code	Title	Credits
<b>Arabic</b>		
AFRICAN 321	First Semester Arabic	
AFRICAN 322	Second Semester Arabic	
AFRICAN 323	Third Semester Arabic	
AFRICAN 324	Fourth Semester Arabic	
AFRICAN 325	Colloquial Arabic	
AFRICAN 329	Fifth Semester Arabic	
AFRICAN 330	Sixth Semester Arabic	

### Hebrew

HEBR-MOD 101	First Semester Hebrew	
HEBR-MOD 102	Second Semester Hebrew	
HEBR-MOD 201	Third Semester Hebrew	
HEBR-MOD 202	Fourth Semester Hebrew	
HEBR-MOD/ JEWISH 302	Introduction to Hebrew Literature	

### Turkish

GNS 339	First Semester Turkish	
GNS 340	Second Semester Turkish	
GNS 439	Third Semester Turkish	

GNS 440	Fourth Semester Turkish	
GNS 539	Fifth Semester Turkish and Azeri	
GNS 540	Sixth Semester Turkish and Azeri	

### Persian

ASIALANG 137	First Semester Persian	
ASIALANG 138	Second Semester Persian	
ASIALANG 237	Third Semester Persian	
ASIALANG 238	Fourth Semester Persian	
ASIALANG 337	Fifth Semester Persian	
ASIALANG 338	Sixth Semester Persian	

### Area Studies Courses

Code	Title	Credits
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	3-4
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST/ ASIAN 379	Cities of Asia	3
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST 440	Art and Power in the Arab World	3
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature	3
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
HISTORY 139	Introduction to the Modern Middle East	3-4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4
INTL ST 266	Introduction to the Middle East	3
JEWISH/ LITTRANS 318	Modern Jewish Literature	3-4
JEWISH 356	Jerusalem, Holy City of Conflict and Desire	3
POLI SCI/ JEWISH 341	Israeli Politics and Society	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4

## RUSSIA, EASTERN EUROPE & CENTRAL ASIA

### Study Abroad Programs

- Czech Republic, Prague: CET Academic Prog Prague (ISP-PRAGCZ)

### Language Courses

Code	Title	Credits
<b>Czech</b>		
SLAVIC 115	First Semester Czech	
SLAVIC 116	Second Semester Czech	
SLAVIC 217	Third Semester Czech	
SLAVIC 218	Fourth Semester Czech	
SLAVIC 351	First Semester Intensive Czech	
SLAVIC 352	Second Semester Intensive Czech	
SLAVIC 452	Fourth Semester Intensive Czech	

### Kazakh



GNS 331	First Semester Kazakh
GNS 332	Second Semester Kazakh
GNS 431	Third Semester Kazakh
GNS 432	Fourth Semester Kazakh
GNS 531	Fifth Semester Kazakh
GNS 532	Sixth Semester Kazakh

**Polish**

SLAVIC 111	First Semester Polish
SLAVIC 112	Second Semester Polish
SLAVIC 207	Third Semester Polish
SLAVIC 208	Fourth Semester Polish
SLAVIC 277	Third Year Polish I
SLAVIC 278	Third Year Polish II
SLAVIC 301	Introduction to Intensive Polish
SLAVIC 331	Fourth Year Polish I
SLAVIC 332	Fourth Year Polish II
SLAVIC 470	History of Polish Literature until 1863
SLAVIC 472	History of Polish Literature after 1863

**Russian**

SLAVIC 101	First Semester Russian
SLAVIC 102	Second Semester Russian
SLAVIC 117	Intensive Second Year Russian
SLAVIC 118	Intensive Second Year Russian
SLAVIC 203	Third Semester Russian
SLAVIC 204	Fourth Semester Russian
SLAVIC 275	Third Year Russian I
SLAVIC 276	Third Year Russian II
SLAVIC 315	Russian Language and Culture I
SLAVIC 316	Russian Language and Culture II
SLAVIC 321	Fourth Year Russian I
SLAVIC 322	Fourth Year Russian II
SLAVIC 405	Women in Russian Literature
SLAVIC 420	Chekhov
SLAVIC 421	Gogol
SLAVIC 422	Dostoevsky
SLAVIC 424	Tolstoy
SLAVIC 440	Soviet Literature

**Serbo-Croatian**

SLAVIC 141	First Semester Serbo-Croatian
SLAVIC 142	Second Semester Serbo-Croatian
SLAVIC 251	Third Semester Serbo-Croatian
SLAVIC 252	Fourth Semester Serbo-Croatian
SLAVIC 341	First Semester Intensive Serbo-Croatian
SLAVIC 342	Introduction to Serbian and Croatian Literature
SLAVIC 441	Third Semester Intensive Serbo-Croatian
SLAVIC 442	Fourth Semester Intensive Serbo-Croatian

SLAVIC 449	History of Serbo-Croatian Literature
SLAVIC 454	Modern Serbo-Croatian Literature

**Area Studies Courses**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/ RELIG ST 352	Shamanism	3
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
GNS/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4
HISTORY 357	The Second World War	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY 419	History of Soviet Russia	3-4
HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	3
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	3
LITTRANS 220	Chekhov: The Drama of Modern Life	3
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	3
LITTRANS 222	Dostoevsky in Translation	3-4
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3
LITTRANS 224	Tolstoy in Translation	3-4
LITTRANS 229	Representation of the Jew in Eastern European Cultures	3

LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
LITTRANS 240	Soviet Literature in Translation	3-4
LITTRANS 241	Literatures and Cultures of Eastern Europe	3
LITTRANS 247	Topics in Slavic Literatures in Translation	3
LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	3
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	3
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context	3
LITTRANS 454	History of Serbian and Croatian Literature	3
LITTRANS 455	Modern Serbian and Croatian Literature in Translation	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3
POLI SCI 334	Russian Politics	3-4
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4
SLAVIC 242	Literatures and Cultures of Eastern Europe	3
SLAVIC 245	Topics in Slavic Literatures	3
SLAVIC 285	Slavic Culture in Context: An Honors Course	3
SLAVIC 405	Women in Russian Literature	3-4
SLAVIC 420	Chekhov	3-4
SLAVIC 421	Gogol	3-4
SLAVIC 422	Dostoevsky	3-4
SLAVIC 424	Tolstoy	3-4
SLAVIC 440	Soviet Literature	3-4
SLAVIC/ THEATRE 532	History of Russian Theatre	3

## SOUTH ASIA

### Study Abroad Programs

- There are currently no approved study abroad programs available in this region; international business majors should select another region of emphasis. This information will be updated when an approved program becomes available.

### Language Courses

Code	Title	Credits
ASIALANG 133	First Semester Hindi	

ASIALANG 134	Second Semester Hindi	
ASIALANG 233	Third Semester Hindi	
ASIALANG 234	Fourth Semester Hindi	
ASIALANG 333	Fifth Semester Hindi	
ASIALANG 334	Sixth Semester Hindi	

### Persian

ASIALANG 137	First Semester Persian	
ASIALANG 138	Second Semester Persian	
ASIALANG 237	Third Semester Persian	
ASIALANG 238	Fourth Semester Persian	
ASIALANG 337	Fifth Semester Persian	
ASIALANG 338	Sixth Semester Persian	

### Tibetan

ASIALANG 135	First Semester Modern Tibetan	
ASIALANG 136	Second Semester Modern Tibetan	
ASIALANG 235	Third Semester Modern Tibetan	
ASIALANG 236	Fourth Semester Modern Tibetan	
ASIALANG 677	Advanced Readings in Tibetan	

### Urdu

ASIALANG 139	First Semester Urdu	
ASIALANG 140	Second Semester Urdu	
ASIALANG 239	Third Semester Urdu	
ASIALANG 240	Fourth Semester Urdu	
ASIALANG 339	Fifth Semester Urdu	
ASIALANG 340	Sixth Semester Urdu	

### Area Studies Courses

Code	Title	Credits
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST/ ASIAN 428	Visual Cultures of India	3
ASIAN/ RELIG ST 218	Health and Healing in South Asia	3-4
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN 252	Contemporary Indian Society	4
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN 268	Tibetan Cultures and Traditions	3
ASIAN/ RELIG ST 274	Religion in South Asia	3
ASIAN 311	Modern Indian Literatures	3
ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4
ASIAN/ ART HIST 379	Cities of Asia	3
ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	3
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ASIAN/ RELIG ST 460	The History of Yoga	3
ASIAN/ HISTORY 463	Topics in South Asian History	3

ASIAN/ RELIG ST 466	Buddhist Thought	3
ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3
ASIAN/ENGL 478	Indian Writers Abroad: Literature, Diaspora and Globalization	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
ASIAN 630	Proseminar: Studies in Cultures of Asia	3
COM ARTS 613	Special Topics in Film	3
HISTORY 142	History of South Asia to the Present	3-4
HISTORY 229	Explorations in Transnational/ Comparative History (Humanities)	3
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY 450	Making of Modern South Asia	3-4
HISTORY/ ASIAN 463	Topics in South Asian History	3

## SOUTHEAST ASIA & OCEANIA

### Study Abroad Programs

- Singapore: Nat Univ Singapore Bus Exch (ISP-SINBUS)
- Thailand, Bangkok: Chulalongkorn Univ Exchange (ISP-BANGKC)
- Australia, Melbourne: Monash University Exchange (ISP-MONASH)
- Australia, Sydney: TEAN Univ of New South Wales (ISP-SYDNSW)
- New Zealand: Massey University Exchange (ISP-MASSEY)

### Language Courses

Code	Title	Credits
<b>Filipino (Tagalog)</b>		
ASIALANG 123	First Semester Filipino	
ASIALANG 124	Second Semester Filipino	
ASIALANG 223	Third Semester Filipino	
ASIALANG 224	Fourth Semester Filipino	
ASIALANG 323	Fifth Semester Filipino	
ASIALANG 324	Sixth Semester Filipino	
<b>Hmong</b>		
ASIALANG 125	First Semester Hmong	
ASIALANG 126	Second Semester Hmong	
ASIALANG 225	Third Semester Hmong	
ASIALANG 226	Fourth Semester Hmong	
ASIALANG 325	Fifth Semester Hmong	
ASIALANG 326	Sixth Semester Hmong	
<b>Indonesian</b>		
ASIALANG 127	First Semester Indonesian	
ASIALANG 128	Second Semester Indonesian	
ASIALANG 227	Third Semester Indonesian	
ASIALANG 228	Fourth Semester Indonesian	
ASIALANG 348	Fifth Semester Indonesian	
ASIALANG 328	Sixth Semester Indonesian	
<b>Khmer</b>		
ASIALANG 145	First Semester Khmer	
ASIALANG 146	Second Semester Khmer	

ASIALANG 245	Third Semester Khmer
ASIALANG 246	Fourth Semester Khmer
ASIALANG 345	Fifth Semester Khmer
ASIALANG 346	Sixth Semester Khmer

### Thai

ASIALANG 129	First Semester Thai
ASIALANG 130	Second Semester Thai
ASIALANG 229	Third Semester Thai
ASIALANG 230	Fourth Semester Thai
ASIALANG 329	Fifth Semester Thai
ASIALANG 330	Sixth Semester Thai

### Vietnamese

ASIALANG 131	First Semester Vietnamese
ASIALANG 132	Second Semester Vietnamese
ASIALANG 231	Third Semester Vietnamese
ASIALANG 232	Fourth Semester Vietnamese

### Area Studies Courses

Code	Title	Credits
ANTHRO 330	Topics in Ethnology	3-4
ASIAN/ RELIG ST 206	The Qur'an: Religious Scripture & Literature	3
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4
ASIAN/ ART HIST 379	Cities of Asia	3
ASIAN/ RELIG ST 444	Introduction to Sufism (Islamic Mysticism)	3
ASIAN 600	Capstone Seminar in Asian Humanities	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG 358	Human Geography of Southeast Asia	3
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
POLI SCI 322	Politics of Southeast Asia	3-4

## WESTERN EUROPE

### Study Abroad Programs

- Austria, Vienna: Wirtschaftsuniversitat-Wien Exchange (ISP-VIENNB)
- Belgium, Leuven: KU Leuven Belgium (ISP-LEUVEN)
- Denmark, Copenhagen: Copenhagen Bus School Exchange (ISP-COPBUS)
- England, Coventry: Univ of Warwick Exchange (ISP-WARWEX)
- England, London: IES University of London (ISP-IESLON)
- England, London: UW in London (ISP-LONDON)
- England, London: Univ of Westminster (ISP-WESTMN)
- France, Paris: IES Paris Bus & Inter Affairs (ISP-IESPAR)
- France, Rouen: NEOMA Rouen (ISP-NEOMA)
- Germany, Vallendar: WHU Otto Beisheim Mgt Exchange (ISP-WHU)
- Ireland, Dublin: University College Dublin (ISP-DUBBUS)
- Ireland, Galway: Natl Univ of Ireland, Galway (ISP-GALWAY)
- Italy, Milan: Bocconi University Exchange (ISP-BOCCON)
- Italy, Paderno: CIMBA Italy (ISP-CIMBA)
- Italy, Rome: CEA Rome Business & Psychology (ISP-CEAROM)
- Netherlands, Maastricht: Maastricht University Exchange (ISP-MAAST)
- Norway, Oslo: BI Norwegian Business Exchange (ISP-OSLOBU)
- Spain, Barcelona: IES Lib Arts & Bus Barcelona (ISP-BARCEL)
- Spain, Barcelona: CIEE Bus & Culture Barcelona (ISP-BARCB)
- Spain, Madrid: University Carlos III Exchange (ISP-CARLOS)
- Spain, Pamplona: University of Navarra Exchange (ISP-NAVARR)
- Spain, Seville: CIEE Seville Bus & Society (ISP-SEVIBU)

### Language Courses

Code	Title	Credits
<b>Czech</b>		
SLAVIC 115	First Semester Czech	
SLAVIC 116	Second Semester Czech	
SLAVIC 217	Third Semester Czech	
SLAVIC 218	Fourth Semester Czech	
SLAVIC 351	First Semester Intensive Czech	
SLAVIC 352	Second Semester Intensive Czech	
SLAVIC 451	Third Semester Intensive Czech	
SLAVIC 452	Fourth Semester Intensive Czech	
<b>Danish</b>		
SCAND ST 121	First Semester Danish	
SCAND ST 122	Second Semester Danish	
SCAND ST 221	Second Year Danish	
SCAND ST 222	Second Year Danish	
SCAND ST 271	Readings in Danish Literature	
<b>Dutch</b>		
GERMAN 111	First Semester Dutch	
GERMAN 112	Second Semester Dutch	
GERMAN 213	Third Semester Dutch	
GERMAN 214	Fourth Semester Dutch	
GERMAN 235	Dutch Conversation and Composition	
GERMAN 325	Topics in Dutch Literature	

GERMAN 335	Dutch Conversation and Composition
GERMAN 445	Topics in Dutch Culture
<b>Finnish</b>	
SCAND ST 131	First Semester Finnish
SCAND ST 132	Second Semester Finnish
<b>French</b>	
FRENCH 101	First Semester French
FRENCH 102	Second Semester French
FRENCH 203	Third Semester French
FRENCH 204	Fourth Semester French
FRENCH 228	Intermediate Language and Culture
FRENCH 271	Literature, Comics, and Film in French
FRENCH 301	Practical French Conversation
FRENCH 302	Practical French Conversation
FRENCH 311	Advanced Composition and Speaking
FRENCH 312	Advanced Writing Workshop
FRENCH 321	Medieval and Early Modern French Literature
FRENCH 322	Modern French and Francophone Literature
FRENCH/ ITALIAN/ PORTUG/ SPANISH 429	Introduction to the Romance Languages
FRENCH 430	Readings in Medieval and Renaissance Literature
FRENCH 431	Readings in Early Modern Literature
FRENCH 461	French/Francophone Literary Studies Across the Centuries
FRENCH 462	French/Francophone Cultural Studies Across the Centuries
FRENCH 467	Aspects of Contemporary French Literature
FRENCH 472	French/Francophone Literature and Women
FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies
FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies
FRENCH 590	Introduction to Phonetics
FRENCH 626	Critical Approaches to French Literature
FRENCH 630	The Age of Reason
FRENCH 631	17th-Century French Literature
FRENCH 633	The 17th-Century Novel
FRENCH 636	The French Novel: 1850-1900
FRENCH 639	17th-Century Literature
FRENCH 645	16th-Century French Literature
FRENCH 647	The 20th-Century French Novel
<b>German</b>	
GERMAN 101	First Semester German
GERMAN 102	Second Semester German

GERMAN 203	Third Semester German
GERMAN 204	Fourth Semester German
GERMAN 249	Intermediate German - Speaking and Listening
GERMAN 258	Intermediate German-Reading
GERMAN 262	Intermediate German-Writing
GERMAN 305	Literatur des 20. und 21. Jahrhunderts
GERMAN 337	Advanced Composition & Conversation
GERMAN 351	Introduction to German Linguistics
GERMAN 352	Topics in German Linguistics
GERMAN 362	Topics in German Literature
GERMAN 367	Study Abroad in German Literature
GERMAN 368	Study Abroad in German Culture
GERMAN 369	Study Abroad in German Linguistics
GERMAN 372	Topics in German Culture
GERMAN 385	Honors Seminar in German Literature
GERMAN 411	Kultur des 20. und 21. Jahrhunderts
GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century
GERMAN 644	Theory and Practice of German Drama
GERMAN 650	History of the German Language
GERMAN/ MEDIEVAL 651	Introduction to Middle High German
GERMAN/ COM ARTS 655	German Film
GERMAN 676	Advanced Seminar in German Studies
GERMAN 677	Seminar in German Culture Studies
GERMAN 683	Senior Honors Seminar in German Literature

**Italian**

ITALIAN 101	First Semester Italian
ITALIAN 102	Second Semester Italian
ITALIAN 181	First Semester Italian Honors
ITALIAN 201	Accelerated First Year Italian
ITALIAN 203	Third Semester Italian
ITALIAN 204	Fourth Semester Italian
ITALIAN 311	Advanced Italian Language
ITALIAN 312	Writing Workshop
ITALIAN 321	Studies in Italian Literature and Culture I
ITALIAN 322	Studies in Italian Literature and Culture II
ITALIAN 340	Structures of Italian
ITALIAN/ FRENCH/ PORTUG/ SPANISH 429	Introduction to the Romance Languages
ITALIAN 601	The 19th Century
ITALIAN 621	The 18th Century

ITALIAN 631	Features in Italian Literature
ITALIAN 632	Features in Italian Literature
ITALIAN 636	The Italian Novel
ITALIAN 651	The Renaissance
ITALIAN/ MEDIEVAL 659	Dante's Divina Commedia
ITALIAN/ MEDIEVAL 671	The 13th Century

**Norwegian**

SCAND ST 101	First Semester Norwegian
SCAND ST 102	Second Semester Norwegian
SCAND ST 201	Second Year Norwegian
SCAND ST 202	Second Year Norwegian
SCAND ST 251	Readings in Norwegian Literature

**Polish**

SLAVIC 111	First Semester Polish
SLAVIC 112	Second Semester Polish
SLAVIC 207	Third Semester Polish
SLAVIC 208	Fourth Semester Polish
SLAVIC 277	Third Year Polish I
SLAVIC 278	Third Year Polish II
SLAVIC 301	Introduction to Intensive Polish
SLAVIC 331	Fourth Year Polish I
SLAVIC 332	Fourth Year Polish II
SLAVIC 470	History of Polish Literature until 1863
SLAVIC 472	History of Polish Literature after 1863

**Portuguese**

PORTUG 101	First Semester Portuguese
PORTUG 102	Second Semester Portuguese
PORTUG 201	Third Semester Portuguese
PORTUG 202	Fourth Semester Portuguese
PORTUG 207	Portuguese for Business
PORTUG 221	Introduction to Luso-Brazilian Literatures
PORTUG 225	Third Year Conversation and Composition
PORTUG 226	Third Year Conversation and Composition
PORTUG 301	Intensive Portuguese
PORTUG 302	Intensive Portuguese
PORTUG 311	Fourth Year Composition and Conversation
PORTUG 312	Fourth Year Composition and Conversation
PORTUG 330	History of the Portuguese Language
PORTUG 411	Survey of Portuguese Literature before 1825
PORTUG 412	Survey of Brazilian Literature before 1890

PORTUG/ FRENCH/ ITALIAN/ SPANISH 429	Introduction to the Romance Languages
PORTUG/ GEN&WS 450	Brazilian Women Writers
PORTUG/ AFRICAN 451	Lusophone African Literature
PORTUG 467	Survey of Portuguese Literature since 1825
PORTUG 468	Survey of Brazilian Literature since 1890
PORTUG 640	Topics in Luso-Brazilian Literature

**Spanish**

SPANISH 101	First Semester Spanish
SPANISH 102	Second Semester Spanish
SPANISH 203	Third Semester Spanish
SPANISH 204	Fourth Semester Spanish
SPANISH 223	Introduction to Hispanic Cultures
SPANISH 224	Introduction to Hispanic Literatures
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar
SPANISH 311	Advanced Language Practice
SPANISH 319	Topics in Spanish Language Practice
SPANISH 320	Spanish Phonetics
SPANISH 322	Survey of Early Hispanic Literature
SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing
SPANISH 324	Survey of Modern Spanish Literature
SPANISH 325	Advanced Conversation
SPANISH 326	Survey of Spanish American Literature
SPANISH 359	Spanish Business Area Studies
SPANISH/ MEDIÉVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)
SPANISH/ FRENCH/ ITALIAN/ PORTUG 429	Introduction to the Romance Languages
SPANISH 435	Cervantes
SPANISH 453	Literature of the Twentieth Century
SPANISH 460	Literatura Hispanoamericana
SPANISH 461	The Spanish American Short Story
SPANISH 462	Spanish American Theater and Drama
SPANISH 464	Spanish American Poetry and Essay
SPANISH 466	Topics in Spanish American Literature
SPANISH/ CHICLA 467	US Latino Literature
SPANISH 468	Topics in Hispanic Culture
SPANISH/ CHICLA 469	Topics in Latinx Culture

SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics
SPANISH 472	Hispanic Screen Studies
SPANISH 473	Study Abroad in Spanish Language Practice
SPANISH 474	Study Abroad in Spanish Linguistics
SPANISH 475	Study Abroad in Hispanic Literatures
SPANISH 476	Study Abroad in Hispanic Cultures
SPANISH/ CHICLA 478	Border and Race Studies in Latin America
SPANISH 501	Survey of Spanish American Literature from the Discovery to Modernismo
SPANISH 502	Survey of Spanish American Literature from Modernismo to the Present
SPANISH/ MEDIÉVAL 503	Survey of Medieval Literature
SPANISH/ MEDIÉVAL 504	Survey of Medieval Literature
SPANISH 505	Advanced Survey of Spanish Literature
SPANISH 506	Advanced Survey of Spanish Literature
SPANISH/ MEDIÉVAL 541	Old Spanish
SPANISH 543	Spanish Phonology
SPANISH 544	Contemporary Issues in Applied Spanish Linguistics
SPANISH 545	College Teaching of Spanish
SPANISH 548	Structure of the Spanish Language: Morphology and Syntax
SPANISH 564	Theory and Practice of Hispanic Theatre
SPANISH 627	Historia de Teoría Literaria: de Platon Al Siglo XVIII
SPANISH 628	Historia de Teoría Literaria: Siglos XIX-XX
SPANISH 630	Topics in Hispanic Linguistics
SPANISH 681	Senior Honors Thesis
SPANISH 682	Senior Honors Thesis
SPANISH 691	First Semester Senior Thesis
SPANISH 692	Second Semester Senior Thesis
SPANISH 699	Directed Study

**Swedish**

SCAND ST 111	First Semester Swedish
SCAND ST 112	Second Semester Swedish
SCAND ST 211	Second Year Swedish
SCAND ST 212	Second Year Swedish
SCAND ST 261	Readings in Swedish Literature

**Area Studies Courses**

Code	Title	Credits
ART HIST 336	Study Abroad in Renaissance/Baroque/Northern Art	1-6

ART HIST 346	British Art and Society from the Eighteenth Century to the Present	3	FRENCH 472	French/Francophone Literature and Women	3
ART HIST 351	20th Century Art in Europe	3-4	FRENCH 567	Undergraduate Seminar in French/Francophone Literary Studies	3
ART HIST 408	Topics in Twentieth-Century Art (Modern Italian Art)	3-4	FRENCH 568	Undergraduate Seminar in French/Francophone Cultural Studies	3
ART HIST 454	Art in Germany, 1900-1945	3-4	FRENCH 626	Critical Approaches to French Literature	3
ART HIST 555	Proseminar in 19th Century European Art	3	GEN&WS/ LITTRANS 270	German Women Writers in Translation	3
ART HIST 556	Proseminar in 20th Century European Art	3	GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
COM ARTS 455	French Film	3	GEOG/ URB R PL 305	Introduction to the City	3-4
COM ARTS/ ITALIAN 460	Italian Film	3	GEOG 349	Europe	3
COM ARTS/ GERMAN 655	German Film	3	GEOG/ URB R PL 506	Historical Geography of European Urbanization	3
CURRIC/ED POL/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3	GERMAN 245	Topics in Dutch Life and Culture	3
ENGL 345	Nineteenth-Century Novel	3	GERMAN 266	Topics in German and/or Yiddish Culture	3
ENGL 351	Modernist Novel	3	GERMAN 267	Yiddish Song and the Jewish Experience	3-4
ENGL 352	Modernist Poetry	3	GERMAN/JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	3
ENGL 353	British Literature since 1900	3	GERMAN 271	The German Immigration Experience	3
ENGL 443	Outstanding Figure(s) in Literature since 1800	3	GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	3
ENGL 453	Topic in British Literature and Culture since 1900	3	GERMAN 272	Nazi Culture	3
ENGL 454	James Joyce	3	GERMAN 275	Kafka and the Kafkaesque	3
FOLKLORE/ MEDIÉVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3	GERMAN 278	Topics in German Culture	3
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4	GERMAN 325	Topics in Dutch Literature	3
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4	GERMAN 362	Topics in German Literature	3-4
FRENCH 210	Sexuality and Gender in 20th-Century French Literature	3	GERMAN 367	Study Abroad in German Literature	2-5
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GERMAN 368	Study Abroad in German Culture	2-5
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GERMAN 372	Topics in German Culture	3-4
FRENCH 322	Modern French and Francophone Literature	3	GERMAN 377	Study Abroad in Dutch Literature	2-5
FRENCH 325	Visual Culture in French/Francophone Studies	3	GERMAN 378	Study Abroad in Dutch Culture	2-5
FRENCH 348	Modernity Studies	3	GERMAN 385	Honors Seminar in German Literature	3
FRENCH 449	Francophone Modernity Studies	3	GERMAN 445	Topics in Dutch Culture	3-4
FRENCH 461	French/Francophone Literary Studies Across the Centuries	3	GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3
FRENCH 462	French/Francophone Cultural Studies Across the Centuries	3	GERMAN 612	German Literary Movements Since 1750	3
FRENCH 465	French/Francophone Film	3	GERMAN 632	A Theme in German Literature	3
FRENCH 467	Aspects of Contemporary French Literature	3	GERMAN 644	Theory and Practice of German Drama	3
			GERMAN 677	Seminar in German Culture Studies	3
			GERMAN 683	Senior Honors Seminar in German Literature	3
			HIST SCI/ C&E SOC 230	Agriculture and Social Change in Western History	3

HISTORY 120	Europe and the Modern World 1815 to the Present	4	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
HISTORY 124	British History: 1688 to the Present	4	LITTRANS 260	Italy and the Invention of America: from Columbus to World War II	3
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4	LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	3
HISTORY 223	Explorations in European History (H)	3-4	LITTRANS 272	French Pop Culture	3
HISTORY 224	Explorations in European History (S)	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
HISTORY 271	History Study Abroad: European History	1-4	LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3
HISTORY 349	Contemporary France, 1914 to the Present	3-4	LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation)	3
HISTORY 357	The Second World War	3-4	LITTRANS 324	Topics in Scandinavian Literature	3-4
HISTORY 358	French Revolution and Napoleon	3-4	LITTRANS 326	Topics in Dutch Literature in Translation	3
HISTORY 359	History of Europe Since 1945	3-4	LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2
HISTORY 410	History of Germany, 1871 to the Present	3-4	LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3	LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3	LITTRANS 340	Contemporary Scandinavian Literature in Translation	3-4
ILS 201	Western Culture: Science, Technology, Philosophy I	3	LITTRANS 350	Scandinavian Decadence in its European Context	3-4
ILS 202	Western Culture: Science, Technology, Philosophy II	3	LITTRANS 410	In Translation: Special Topics in Italian Literature	3
ILS 203	Western Culture: Literature and the Arts I	3	MEDIEVAL/ SCAND ST 444	Kalevala and Finnish Folk-Lore	4
ILS 204	Western Culture: Literature and the Arts II	3-4	MUSIC 416	Survey of Music in the Twentieth Century	3
ILS 205	Western Culture: Political, Economic, and Social Thought I	3	MUSIC 513	Survey of Opera	3
ILS 206	Western Culture: Political, Economic, and Social Thought II	3	PHILOS/ JEWISH 442	Moral Philosophy and the Holocaust	3
ILS/ITALIAN 350	Rome: Lust for Glory	3-4	PHILOS 530	Freedom Fate and Choice	3
ITALIAN 230	Modern Italian Culture	3	PHILOS 549	Great Moral Philosophers	3
ITALIAN 321	Studies in Italian Literature and Culture I	3	POLI SCI 340	The European Union: Politics and Political Economy	3-4
ITALIAN 322	Studies in Italian Literature and Culture II	3	POLI SCI 538	Politics and Policies in the European Union	3-4
ITALIAN/ILS 350	Rome: Lust for Glory	3-4	POLI SCI 659	Politics and Society: Contemporary Eastern Europe	3-4
ITALIAN 450	Special Topics in Italian Literature	3	PORTUG 361	Portuguese Civilization	3
ITALIAN 452	Special Topics in Italian Studies: Culture, Film, Language	3	PORTUG 467	Survey of Portuguese Literature since 1825	3
ITALIAN/ COM ARTS 460	Italian Film	3	RELIG ST/ FOLKLORE/ MEDIEVAL/ SCAND ST 342	Nordic Mythology	3
LITTRANS 209	Masterpieces of French Literature and Culture	3	SCAND ST 276	Culture & Community in Scandinavia	3
LITTRANS 213	Love and Sex in Italian Comedy	3-4			
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3			
LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces	3			
LITTRANS 252	Spanish Literary Masterpieces in Translation	3			



SCAND ST/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	Nordic Mythology	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4
SCAND ST 411	Areas in Scandinavian Literature	1
SCAND ST 419	Scandinavian Children's Literature	4
SCAND ST 422	The Drama of Henrik Ibsen	4
SCAND ST 423	The Drama of August Strindberg	4
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4
SCAND ST 426	Kierkegaard and Scandinavian Literature	3
SCAND ST 427	Contemporary Scandinavian Literature	4
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4
SCAND ST 436	Topics in Scandinavian Literature	3-4
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia	3
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4
SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
SCAND ST 450	Scandinavian Decadence in its European Context	3-4
SCAND ST 476	Scandinavian Life and Civilization II	4
SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH 224	Introduction to Hispanic Literatures	3
SPANISH 322	Survey of Early Hispanic Literature	3
SPANISH 324	Survey of Modern Spanish Literature	3
SPANISH 359	Spanish Business Area Studies	3
SPANISH 361	Spanish Civilization	3
SPANISH 453	Literature of the Twentieth Century	3
SPANISH 468	Topics in Hispanic Culture	3
SPANISH 505	Advanced Survey of Spanish Literature	3
SPANISH 506	Advanced Survey of Spanish Literature	3
THEATRE/ LITTRANS 335	In Translation: The Drama of Henrik Ibsen	3-4
THEATRE/ LITTRANS 336	In Translation: The Drama of August Strindberg	3-4
THEATRE 522	Experimental Drama: The Theatre of Europe 1850-the Present	3

THEATRE/ ENGL 575	British Drama, 1914 to Present	3
THEATRE 619	Special Topics in Theatre and Drama	1-3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Know and be able to apply international business theories and concepts to a variety of business situations.
2. Formulate business strategies appropriate to global, regional and local contexts.
3. Know the skills necessary for cross-cultural adaptation and know how to access resources to continue future learning.

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

### ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major,

they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

## ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

## CAREERS

The perspective, intercultural awareness and regional knowledge gained through the study of international business is always relevant, but has greatest career impact several years into one's career. Therefore, the international business major is designed to serve as a complement to another business major. International business careers develop after graduates first develop skills and expertise in a functional area of business, which drives initial career placement and advancement.

Careers in international business are not necessarily located overseas or even in major cities. Many positions are in U.S.-based offices or divisions of international firms.

## PEOPLE

### FACULTY AND STAFF IN INTERNATIONAL BUSINESS

**For more information about the faculty and their research interests, please visit the** [directory](https://business.wisc.edu/directory/) (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026-2027.

## MANAGEMENT AND HUMAN RESOURCES

Students in human resources management study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Management studies focus on the activities of leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of

organizational functions. Studies in entrepreneurship are designed for students who are interested in bringing new ideas to the marketplace.

The M H R major is designed to give students the choice of which option(s) to study: human resources, management, or entrepreneurship.

## DEGREES/MAJORS/CERTIFICATES

- Business Administration: Human Resources, BBA (p. 1498)
- Business Administration: Management, BBA (p. 1501)
- Business: Entrepreneurship, BBA (p. 1504)
- Business: Human Resource Management, BBA (p. 1504)
- Business: Management and Human Resources, BBA (p. 1505)
- Business: Management, BBA (p. 1516)
- Entrepreneurship, Certificate (p. 1517)

## PEOPLE

**For more information about the faculty and their research interests, please visit the** [directory](https://business.wisc.edu/directory/) (<https://business.wisc.edu/directory/>).

## BUSINESS ADMINISTRATION: HUMAN RESOURCES, BBA

Human resources professionals play a crucial role in an organization's success: They attract, motivate, develop and retain employees. If you enjoy a high level of personal interaction and have a healthy amount of empathy and patience, advancing in this field is for you.

In the UW-Madison Online BBA in Human Resources you will learn about leadership, strategy, and decision-making that will land you in a demanding yet rewarding field. Through the highly ranked School of Business, you will gain valuable skills in communication, collaboration, problem solving, research and planning. You will learn to analyze an organization's compensation strategy, discern the best staffing techniques, address challenges facing labor and employment relations, use the best negotiation tactics and design work systems that help employees contribute to an organization's performance.

After you graduate, you'll attract top national employers in a variety of industries, such as finance and insurance, health care and social assistance, professional/scientific/technical services and manufacturing. The BBA in Human Resources from UW-Madison Online will equip you for a broad array of careers, from human resources manager to compensation analyst or compliance manager.

## HOW TO GET IN

Students applying to the BBA in Business Administration-Human Resources program apply through UW-Madison Online (<https://online.wisc.edu/>). UW-Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). UW-Madison re-entry students may also be considered. For more information, visit the UW-Madison Online admissions website (<https://online.wisc.edu/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business.

### PRE-BUSINESS REQUIREMENTS

Code	Title	Credits
<b>Communication Part A</b>		
Complete one course designated Communication Part A, preferably:		0-3
COM ARTS 100	Introduction to Speech Composition	
ENGL 100	Introduction to College Composition	
ESL 118	Academic Writing II	
Completion of Communication Part A based on UW Placement Test		
<b>Economics</b>		
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics-Accelerated Treatment	4
<b>Psychology</b>		
PSYCH 202	Introduction to Psychology	3-4
<b>Math</b>		
Three credits satisfied by placement exam or one of the following courses:		3

Math 112, 113, 114, 171, 211, 213, 217, 221, or 222

**Total Credits**

**10-14**

### LIBERAL STUDIES REQUIREMENTS

Liberal studies requirements must be completed prior to graduation.

**Students may not use courses offered by the Department of Economics or by the School of Business to fulfill liberal studies requirements. In addition, a single course may not be used to fulfill multiple liberal studies requirements.**

Code	Title	Credits
<b>Literature</b>		
Select one 3 (or more) credit course designated Literature (L)		3
<b>Science</b>		
Select six credits designated Biological, Natural or Physical Science. Courses that MAY NOT COUNT include: Courses in Computer Science, Mathematics, Statistics or Economics.		6
<b>Ethics</b>		
Select one of the following:		3-4
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
<b>Humanities</b>		
Select one 3 (or more) credit course designated Humanities (H or Z) <sup>1</sup>		3
<b>Ethnic Studies</b>		
Select one 3 (or more) credit course designated Ethnic Studies (e)		3
<b>Social Science</b>		
Select one 3 (or more) credit course designated Social Science (S or Z)		3
<b>Total Credits</b>		<b>21-22</b>

<sup>1</sup>

**Note:** If a student completes an additional Literature (L) course, this requirement will be satisfied.

### BUSINESS FOUNDATION REQUIREMENTS

All BBA degree candidates are required to complete foundation courses in business and economics. The foundation courses, in conjunction with a broad educational base, are designed to integrate the student's specialized training with an understanding of the structure and functions of business and its role in the larger social system. Business foundation courses make up the business preparatory, core, and breadth requirements. Sequencing of courses in business preparatory, core, and breadth sections may vary based on a student's academic plan or major. Consult with your academic advisor for specific recommendations.

## BUSINESS PREPARATORY REQUIREMENT

All students must take the following:

Code	Title	Credits
GEN BUS 110	Personal and Professional Foundations in Business	1
GEN BUS 106	Foundational Skills for Business Analysis	1
GEN BUS 206	Beginning Data Analysis for Business	3
GEN BUS 207	Intermediate Data Analysis for Business	3
GEN BUS 360	Workplace Writing and Communication	3
ECON 102 or ECON 111	Principles of Macroeconomics Principles of Economics-Accelerated Treatment	3-4
ACCT IS 100	Introductory Financial Accounting	3
ACCT IS 211	Introductory Managerial Accounting	3
<b>Total Credits</b>		<b>20-21</b>

## BUSINESS CORE REQUIREMENT

Code	Title	Credits
FINANCE/ ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
OTM 300	Operations Management	3
<b>Total Credits</b>		<b>12</b>

Code	Title	Credits
<b>Business Breadth Requirement</b>		
GEN BUS 301	Business Law	3
Business Breadth Course <sup>1</sup>		3
Business Breadth Course <sup>1</sup>		3
<b>Total Credits <sup>2</sup></b>		<b>3-9</b>

1

Students must complete two business courses (3 credits each) that are outside their major from two separate School of Business departments. Courses taken to satisfy this requirement may not include preparatory or core courses, courses required by or cross-listed with the student's major, general business courses, any 399 (Readings and Research) course, or business courses cross-listed with foreign language departments. Courses taken at another institution must be directly equivalent to a UW-Madison business course and title (i.e. not elective credit which is sometimes given an X10 course number).

2

Students with two majors in business or students with one major and a business related certificate need only one course (3 credits) outside their majors/certificate to satisfy this requirement. Students with three or more business majors or two majors and a business related certificate are not required to take additional breadth courses.

## CREDITS FOR BBA DEGREE CREDIT REQUIREMENTS

Candidates for the BBA degree must meet all of the following credit requirements in addition to completing the required coursework.

### 120 Degree Credits

All students who plan to graduate from the University of Wisconsin-Madison with a bachelor's degree must complete a minimum of 120 degree credits.

## BBA IN BUSINESS ADMINISTRATION - HUMAN RESOURCES MAJOR REQUIREMENTS

The BBA in Business Administration - Human Resources major is a total of 12 credits consisting of the following 4 required courses.

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 423	Strategic Management	3
M H R 610	Compensation: Theory and Administration	3
M H R 611	Strategic Talent Management	3
<b>Total Credits</b>		<b>12</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand that the management of human resources is vital to a successful business strategy and organizational effectiveness.
2. Analyze organization compensation strategy to identify problems and develop solutions that support the organization's strategy.
3. Discern which staffing techniques are poor, fair, and good predictors of employees' future job performance.

4. Identify and address the various challenges currently facing labor and employment relations.
5. Apply appropriate tactics in competitive and cooperative negotiations individually and as part of a negotiation team.
6. Design work systems and roles that allow employees to contribute to organizational performance.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ACCESSING ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with current School of Business advisors in the Wisconsin BBA Advising Center to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

### CAREERS

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors help prepare students for life post-graduation through individual and group advising.

## PEOPLE

### FACULTY AND STAFF IN MANAGEMENT AND HUMAN RESOURCES

**For more information about the faculty and their research interests, please visit the** [directory](https://business.wisc.edu/directory/) (<https://business.wisc.edu/directory/>).

## ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS ADMINISTRATION: MANAGEMENT, BBA

Management studies focus on the activities of leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of organizational functions. If you aim to be an entrepreneur

or advance in a leadership position in a private business, government or nonprofit organization, a BBA in Management is a good fit for you.

Through UW–Madison Online, you'll learn from top faculty in the field. From the highly ranked School of Business, you will gain valuable skills in communication, collaboration, planning, problem solving and building relationships. You will learn to develop successful team structures that maximize performance, design systems to achieve strategic objectives in a global business environment, diagnose problems and design effective interventions, and evaluate an organization to maximize its competitive advantage within an industry.

This degree will prepare you to work for businesses large and small or for yourself as a business owner or entrepreneur. Top industries hiring in this field include finance and insurance, health care and social assistance, professional/scientific/technical services and manufacturing. The BBA in Management from UW–Madison Online will equip you for a broad array of careers, from business owner to talent acquisition manager or compensation analyst, to name just a few.

## HOW TO GET IN

Students applying to the BBA in Business Administration–Management program apply through UW–Madison Online (<https://online.wisc.edu/>). UW–Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). UW–Madison re-entry students may also be considered. For more information, visit the UW–Madison Online admissions website (<https://online.wisc.edu/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
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|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business.

## PRE-BUSINESS REQUIREMENTS

Code	Title	Credits
<b>Communication Part A</b>		
Complete one course designated Communication Part A, preferably:		0-3
COM ARTS 100	Introduction to Speech Composition	
ENGL 100	Introduction to College Composition	
ESL 118	Academic Writing II	
Completion of Communication Part A based on UW Placement Test		
<b>Economics</b>		
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics-Accelerated Treatment	4
<b>Psychology</b>		
PSYCH 202	Introduction to Psychology	3-4
<b>Math</b>		
Three credits satisfied by placement exam or one of the following courses:		3
Math 112, 113, 114, 171, 211, 213, 217, 221, or 222		
<b>Total Credits</b>		<b>10-14</b>

## LIBERAL STUDIES REQUIREMENTS

Liberal studies requirements must be completed prior to graduation.

**Students may not use courses offered by the Department of Economics or by the School of Business to fulfill liberal studies requirements. In addition, a single course may not be used to fulfill multiple liberal studies requirements.**

Code	Title	Credits
<b>Literature</b>		
Select one 3 (or more) credit course designated Literature (L)		3
<b>Science</b>		
Select six credits designated Biological, Natural or Physical Science. Courses that MAY NOT COUNT include: Courses in Computer Science, Mathematics, Statistics or Economics.		6
<b>Ethics</b>		
Select one of the following:		3-4
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
<b>Humanities</b>		
Select one 3 (or more) credit course designated Humanities (H or Z) <sup>1</sup>		3
<b>Ethnic Studies</b>		

Select one 3 (or more) credit course designated Ethnic Studies (e)	3
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### Social Science

Select one 3 (or more) credit course designated Social Science (S or Z)	3
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<b>Total Credits</b>	<b>21-22</b>
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1

**Note:** If a student completes an additional Literature (L) course, this requirement will be satisfied.

## BUSINESS FOUNDATION REQUIREMENTS

All BBA degree candidates are required to complete foundation courses in business and economics. The foundation courses, in conjunction with a broad educational base, are designed to integrate the student's specialized training with an understanding of the structure and functions of business and its role in the larger social system. Business foundation courses make up the business preparatory, core, and breadth requirements. Sequencing of courses in business preparatory, core, and breadth sections may vary based on a student's academic plan or major. Consult with your academic advisor for specific recommendations.

## BUSINESS PREPARATORY REQUIREMENT

All students must take the following:

Code	Title	Credits
GEN BUS 110	Personal and Professional Foundations in Business	1
GEN BUS 106	Foundational Skills for Business Analysis	1
GEN BUS 206	Beginning Data Analysis for Business	3
GEN BUS 207	Intermediate Data Analysis for Business	3
GEN BUS 360	Workplace Writing and Communication	3
ECON 102 or ECON 111	Principles of Macroeconomics Principles of Economics-Accelerated Treatment	3-4
ACCT IS 100	Introductory Financial Accounting	3
ACCT IS 211	Introductory Managerial Accounting	3

<b>Total Credits</b>	<b>20-21</b>
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## BUSINESS CORE REQUIREMENT

Code	Title	Credits
FINANCE/ ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
OTM 300	Operations Management	3
<b>Total Credits</b>	<b>12</b>	

Code	Title	Credits
<b>Business Breadth Requirement</b>		
GEN BUS 301	Business Law	3
Business Breadth Course <sup>1</sup>		3
Business Breadth Course <sup>1</sup>		3
<b>Total Credits <sup>2</sup></b>		<b>3-9</b>

1

Students must complete two business courses (3 credits each) that are outside their major from two separate School of Business departments. Courses taken to satisfy this requirement may not include preparatory or core courses, courses required by or cross-listed with the student's major, general business courses, any 399 (Readings and Research) course, or business courses cross-listed with foreign language departments. Courses taken at another institution must be directly equivalent to a UW-Madison business course and title (i.e. not elective credit which is sometimes given an X10 course number).

2

Students with two majors in business or students with one major and a business related certificate need only one course (3 credits) outside their majors/certificate to satisfy this requirement. Students with three or more business majors or two majors and a business related certificate are not required to take additional breadth courses.

## CREDITS FOR BBA DEGREE CREDIT REQUIREMENTS

Candidates for the BBA degree must meet all of the following credit requirements in addition to completing the required coursework.

### 120 Degree Credits

All students who plan to graduate from the University of Wisconsin-Madison with a bachelor's degree must complete a minimum of 120 degree credits.

## BBA IN BUSINESS ADMINISTRATION - MANAGEMENT MAJOR REQUIREMENTS

The BBA in Business Administration - Management major is a total of 12 credits consisting of the following 4 required courses.

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 401	The Management of Teams	3
M H R 423	Strategic Management	3
M H R 628	Negotiations	3
<b>Total Credits</b>		<b>12</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand that the management of human resources is vital to a successful business strategy and organizational effectiveness.
2. Develop successful team structures that mitigate decision-making pitfalls and interpersonal conflict while maximizing team performance.
3. Design successful organization structures to achieve strategic objectives and execute operational plans within a global business environment.
4. Diagnose management and organizational problems from an internal or external consultant's perspective and design interventions to enhance organizational effectiveness.
5. Evaluate an organization's internal capabilities and external pressures and maximize its competitive advantage within an industry.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ACCESSING ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with current School of Business advisors in the Wisconsin BBA Advising Center to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

## CAREERS

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors help prepare students for life post-graduation through individual and group advising.

## PEOPLE

## FACULTY AND STAFF IN MANAGEMENT AND HUMAN RESOURCES

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS: ENTREPRENEURSHIP, BBA

The first term for enrollment in the BBA degree in Business: Entrepreneurship is **fall 2024**.

Founded in 1900, the Wisconsin School of Business established one of the first five business programs in the nation. That entrepreneurial spirit remains strong.

As a student in the Wisconsin School of Business, you will find yourself inspired by peers, staff, alumni, business leaders, and world-renowned faculty who are focused, collaborative, and engaged in every aspect of the student experience. You will join a highly-ranked program that equips you to meet both academic and career challenges. Employers value Wisconsin School of Business graduates because of the comprehensive preparation this learning environment provides. Graduates possess highly sought-after general management and specialized expertise in business.

Joining collaborative, inspiring, trustworthy, and progressive Wisconsin School of Business alumni, Business Badger graduates are prepared to lead their organizations to success and transform the world of business. Together Forward!

## BACHELOR OF BUSINESS ADMINISTRATION IN BUSINESS: ENTREPRENEURSHIP

The BBA degree in Entrepreneurship (BBAE) prepares students to launch and grow their own ventures, join innovative startups, or work in established organizations that foster an entrepreneurial mindset. Students who pursue the BBAE degree will learn the essential skills and knowledge needed to identify, evaluate, and pursue new business opportunities as well as to manage and lead entrepreneurial teams and organizations. They will be prepared for roles such as a founder, a manager in a growth-oriented company, or a consultant supporting clients developing and de-risking new products and services.

The program is open to students who have completed the pre-business requirements and have been admitted to the Wisconsin School of Business. BBAE students will complete a core curriculum that covers

the fundamentals of business, such as accounting, finance, marketing, operations, and strategy. In addition, BBAE students will choose from a variety of electives that focus on different aspects of entrepreneurship, such as creativity, innovation, social entrepreneurship, and venture capital. BBAE students will also have opportunities to participate in experiential learning activities, such as innovation competitions, accelerator programs, supportive student organizations, and more on campus.

The BBAE degree aims to develop students' entrepreneurial mindset and capabilities as well as their professional and ethical values. Students will gain confidence in their ability to generate and implement innovative ideas as well as to overcome challenges and uncertainties in the entrepreneurial process. Students will also develop their communication and collaboration skills as well as an awareness of the social and environmental impact of their entrepreneurial endeavors.

The BBAE degree opens up a wide range of career paths for graduates who aspire to create value and make a difference in the world. Whether they choose to start their own businesses, join existing companies, or work in entrepreneurial organizations, BBAE graduates will be equipped with the skills and knowledge to succeed.

## PEOPLE

For more information about the faculty and their research interests, please visit the directory.

## BUSINESS: HUMAN RESOURCE MANAGEMENT, BBA

The first term for enrollment in the BBA degree in Business: Human Resource Management is **fall 2024**.

Founded in 1900, the Wisconsin School of Business established one of the first five business programs in the nation. That entrepreneurial spirit remains strong.

As a student in the Wisconsin School of Business, you will find yourself inspired by peers, staff, alumni, business leaders, and world-renowned faculty who are focused, collaborative, and engaged in every aspect of the student experience. You will join a highly-ranked program that equips you to meet both academic and career challenges. Employers value Wisconsin School of Business graduates because of the comprehensive preparation this learning environment provides. Graduates possess highly sought-after general management and specialized expertise in business.

Joining collaborative, inspiring, trustworthy, and progressive Wisconsin School of Business alumni, Business Badger graduates are prepared to lead their organizations to success and transform the world of business. Together Forward!

## BACHELOR OF BUSINESS ADMINISTRATION IN BUSINESS: HUMAN RESOURCE MANAGEMENT

The BBA in Human Resource Management (BBAHR) degree prepares students to manage and lead the most valuable asset of any organization:



its people. Students who pursue the BBAHR degree will learn how to design, implement, and evaluate effective human resource policies and practices that align with the strategic goals and objectives of an organization as well as with the legal and ethical standards of the profession.

The program is open to students who have completed the pre-business requirements and have been admitted to the Wisconsin School of Business. BBAHR students will complete a core curriculum that covers the fundamentals of business, such as accounting, finance, marketing, operations, and strategy. In addition, BBAHR students will choose from a variety of electives that focus on different aspects of human resource management, such as talent acquisition, compensation and benefits, performance management, employee relations, diversity and inclusion, and organizational development. BBAHR students will also have the opportunity to participate in experiential learning activities, such as case studies, simulations, and applied projects.

The BBAHR degree aims to develop students' knowledge and skills in human resource management as well as their professional and ethical values. Students will gain an understanding of the theories and concepts that underlie human resource management, as well as the practical applications and best practices that are relevant in complex business environments. Students will also develop their communication and collaboration skills along with their critical thinking and problem-solving abilities.

The BBAHR degree opens up a wide range of career paths for graduates who aspire to make a positive impact on the performance and well-being of employees and organizations. Whether they choose to work as human resource generalists or specialists, consultants or analysts, compliance managers or leaders, BBAHR graduates will be equipped with the skills and knowledge to succeed in human resource management.

## PEOPLE

**For more information about the faculty and their research interests, please visit the directory.**

## BUSINESS: MANAGEMENT AND HUMAN RESOURCES, BBA

**Admissions to the Business: Management and Human Resources BBA will be suspended in fall 2025 and discontinued in fall 2029. If you have any questions, please contact the department.**

Students in the Management and Human Resources (<https://business.wisc.edu/undergraduate/majors/management-human-resources/>) major can choose from various options. Students in human resources study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Management studies focus on the activities of leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of organizational functions. Studies in entrepreneurship are designed for students who are interested in bringing new ideas to the marketplace.

## RELATED STUDENT ORGANIZATIONS

Collegiate DECA (<https://win.wisc.edu/organization/deca/>)

Enactus (<https://win.wisc.edu/organization/madisonenactus/>)

Sigma Iota Epsilon (SIE) (<https://www.sienational.com/>)

Society for Human Resource Management (<https://win.wisc.edu/organization/shrm/>)

Sports Business Club (<https://win.wisc.edu/organization/sportsbusinessclub/>)

Wisconsin Consulting Club (WCC) (<https://win.wisc.edu/organization/wcc/>)

Transcend Madison (<https://www.transcenduw.com/>)

## HOW TO GET IN

**Admissions to the Business: Management and Human Resources BBA will be suspended in fall 2025 and discontinued in fall 2029. If you have any questions, please contact the department.**

Students wishing to pursue this major on campus must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in

business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## MANAGEMENT AND HUMAN RESOURCES (MHR) MAJOR REQUIREMENTS

The management and human resources major has six different options to choose from, as outlined below. Credit requirements vary based upon the option(s) students choose. Students may only declare one named option.

Code	Title	Credits
<b>Students may complete a major in management and human resources in multiple different ways:</b>		
	Complete the requirements for the Management option only	12
	Complete the requirements for the Human Resources option only	12
	Complete the requirements for the Entrepreneurship option only	12
	Complete the requirements for Management & Entrepreneurship	18
	Complete the requirements for Management & Human Resources	18
	Complete the requirements for Entrepreneurship & Human Resources	21

## MANAGEMENT AND HUMAN RESOURCES: NAMED OPTIONS

View as listView as grid

- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP (P. 1510)
- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP/HUMAN RESOURCES (P. 1511)
- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP/MANAGEMENT (P. 1512)
- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: HUMAN RESOURCES (P. 1513)
- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: MANAGEMENT (P. 1514)
- BUSINESS: MANAGEMENT AND HUMAN RESOURCES: MANAGEMENT/HUMAN RESOURCES (P. 1515)

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Human Resources and Management Tracks) Understand that the management of human resources is vital to a successful business strategy and organizational effectiveness.
2. (Human Resources Track) Analyze organization compensation strategy to identify problems and develop solutions that support the organization's strategy.
3. (Human Resources Track) Discern which staffing techniques are poor, fair, and good predictors of employees' future job performance.
4. (Human Resources Track) Identify and address the various challenges currently facing labor and employment relations.
5. (Human Resources Track) Apply appropriate tactics in competitive and cooperative negotiations individually and as part of a negotiation team.

6. (Human Resources Track) Design work systems and roles that allow employees to contribute to organizational performance.
7. (Entrepreneurship Track) Develop innovative solutions to challenging problems and generate economic and socially valuable outcomes.
8. (Entrepreneurship Track) Create, assess, shape, and act on opportunities in a variety of contexts and organizations.
9. (Entrepreneurship Track) Make decisions based on mindfulness of relevant stakeholders, ethical reflections, and an attempt to create and sustain social, environmental, and economic value.
10. (Entrepreneurship Track) Incorporate cultural context and complexities when managing in a global environment.
11. (Entrepreneurship Track) Exercise appropriate leadership, value diverse perspectives, and work collaboratively to accomplish organizational objectives in a dynamic environment.
12. (Management Track) Develop successful team structures that mitigate decision-making pitfalls and interpersonal conflict while maximizing team performance.
13. (Management Track) Design successful organization structures to achieve strategic objectives and execute operational plans within a global business environment.
14. (Management Track) Diagnose management and organizational problems from an internal or external consultant's perspective and design interventions to enhance organizational effectiveness.
15. (Management Track) Evaluate an organization's internal capabilities and external pressures and maximize its competitive advantage within an industry.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

There are three named options for the MHR major from which students must choose. Students may also select any combination of two options. There are six plans below representing these options.

### MANAGEMENT

#### Freshman

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
<b>12</b>		<b>13</b>	

#### Sophomore

Fall	Credits	Spring	Credit	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		

GEN BUS 360	3	M H R 305, 399, 401, 403, or 412	3
<b>16</b>		<b>15</b>	
<b>3</b>			

#### Junior

Fall	Credits	Spring	Credits
M H R 423	3	M H R 305, 399, 401, 403, or 412	3
Ethics <sup>1</sup>	3-4	Business Breadth	3
Communications B	3-4	Elective	3
Elective	3	Elective	3
<b>12-14</b>		<b>12</b>	

#### Senior

Fall	Credits	Spring	Credits
GEN BUS 301	3	M H R 305, 399, 401, 403, 412, 310, 365, 422, 427, or 628	3
Humanities, Social Science, or Literature	3	Business Breadth	3
Humanities, Social Science, or Literature	3	Elective	3
Elective	3	Science	3
<b>12</b>		<b>12</b>	

#### Total Credits 107-109

### HUMAN RESOURCES

#### Freshman

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
<b>12</b>		<b>13</b>	

#### Sophomore

Fall	Credits	Spring	Credit	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		
GEN BUS 360	3	M H R 305	3		
<b>16</b>		<b>15</b>		<b>3</b>	

#### Junior

Fall	Credits	Spring	Credits
M H R 610 or 611	2-3	M H R 612	3
Communications B	3-4	Business Breadth	3
Ethics <sup>1</sup>	3-4	Elective	3

Elective	3 Elective	3
Elective	3	
<b>14-17</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
GEN BUS 301	3 Business Breadth	3
Elective	3 Science	3
Humanities, Social Science, or Literature	3 Elective	3
Humanities, Social Science, or Literature	3 M H R 612, 365, 399, 423, 628, or R M I 620	3
<b>12</b>		<b>12</b>

**Total Credits 109-112**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

**ENTREPRENEURSHIP**

**Freshman**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MATH 211	5 ECON 101		4
GEN BUS 110	1 PSYCH 202		3
Communications A	3 Science		3
Ethnic Studies	3 Humanities, Social Science, or Literature		3
<b>12</b>		<b>13</b>	

**Sophomore**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	<b>Summer</b>	<b>Credits</b>
M H R 300	3 GEN BUS 307		3	FINANCE/ ECON 300	3
GEN BUS 306	3 ACCT I S 211		3		
ECON 102	4 OTM 300		3		
ACCT I S 100	3 M H R 434		3		
GEN BUS 360	3 MARKETNG 300		3		
<b>16</b>		<b>15</b>		<b>3</b>	

**Junior**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
M H R 422	3 M H R 399, FINANCE 457, M H R 305, M H R 310, M H R 365, M H R 401, M H R 403, M H R 412, M H R 423, M H R 441, or M H R 628		3
Ethics <sup>1</sup>	3-4 Business Breadth		3

Communications B	3-4 Elective	3
Elective	3 Elective	3
Elective	3	
<b>15-17</b>		<b>12</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
GEN BUS 301	3 M H R 427	3
Humanities, Social Science, or Literature	3 Business Breadth	3
Humanities, Social Science, or Literature	3 Science	3
Elective	3 Elective	3
<b>12</b>		<b>12</b>

**Total Credits 110-112**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

**MANAGEMENT & HUMAN RESOURCES**

**Freshman**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
MATH 211	5 ECON 101		4
GEN BUS 110	1 PSYCH 202		3
Communications A	3 Science		3
Ethnic Studies	3 Humanities, Social Science, or Literature		3
<b>12</b>		<b>13</b>	

**Sophomore**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	<b>Summer</b>	<b>Credits</b>
ECON 102	4 GEN BUS 307		3	FINANCE/ ECON 300	3
GEN BUS 306	3 ACCT I S 211		3		
ACCT I S 100	3 OTM 300		3		
M H R 300	3 MARKETNG 30C		3		
GEN BUS 360	3 M H R 305		3		
<b>16</b>		<b>15</b>		<b>3</b>	

**Junior**

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Communications B	3-4 M H R 423		3
Ethics <sup>1</sup>	3-4 Business Breadth		3
Elective	3 Humanities, Social Science, or Literature		3

M H R 401, 399, 403, or 412	3 Humanities, Social Science, or Literature	3
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**12-14** **12**

**Senior**

Fall	Credits	Spring	Credits
GEN BUS 301	3 M H R 612		3
Elective	3 Business Breadth		3
M H R 610 or 611	2-3 Science		3
Elective	3 M H R 401, 399, 403, 412, 310, 365, 422, 427, or 628		3

**11-12** **12**

**Total Credits 106-109**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

**MANAGEMENT & ENTREPRENEURSHIP****Freshman**

Fall	Credits	Spring	Credits
MATH 211	5 ECON 101		4
GEN BUS 110	1 PSYCH 202		3
Communications A	3 Science		3
Ethnic Studies	3 Humanities, Social Science, or Literature		3

**12** **13**

**Sophomore**

Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4 GEN BUS 307		3 FINANCE/ ECON 300		3
GEN BUS 306	3 ACCT I S 211		3		
ACCT I S 100	3 OTM 300		3		
M H R 300	3 MARKETNG 30C		3		
GEN BUS 360	3 M H R 305, 399, 401, 403, or 412		3		

**16** **15** **3**

**Junior**

Fall	Credits	Spring	Credits
M H R 422	3 Business Breadth		3
M H R 423	3 Humanities, Social Science, or Literature		3
Communications B	3-4 Elective		3
Ethics <sup>1</sup>	3-4 Elective		3
Elective	3 M H R 305, 399, 401, 403, or 412		3

**15-17** **15**

**Senior**

Fall	Credits	Spring	Credits
M H R 434, 399, or FINANCE 457	3 M H R 427		3
Humanities, Social Science, or Literature	3 Business Breadth		3
GEN BUS 301	3 Science		3
Elective	3 Elective		3
Elective	3		

**15** **12**

**Total Credits 116-118**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

**ENTREPRENEURSHIP & HUMAN RESOURCES****Freshman**

Fall	Credits	Spring	Credits
MATH 211	5 ECON 101		4
GEN BUS 110	1 PSYCH 202		3
Ethnic Studies	3 Science		3
Communications A	3 Humanities, Social Science, or Literature		3

**12** **13**

**Sophomore**

Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4 GEN BUS 307		3 FINANCE/ ECON 300		3
GEN BUS 306	3 ACCT I S 211		3		
ACCT I S 100	3 OTM 300		3		
M H R 300	3 MARKETNG 30C		3		
GEN BUS 360	3 M H R 305		3		

**16** **15** **3**

**Junior**

Fall	Credits	Spring	Credits
M H R 422	3 M H R 434, 399, or FINANCE 457		3
Ethics <sup>1</sup>	3-4 Business Breadth		3
Communications B	3-4 Humanities, Social Science, or Literature		3
Elective	3 Elective		3
Elective	3 Elective		3

**15-17** **15**

**Senior**

Fall	Credits	Spring	Credits
M H R 610, 611, 365, 399, 423, or 628	3	M H R 612	3
M H R 610 or 611	2-3	M H R 427	3
GEN BUS 301	3	Business Breadth	3
Humanities, Social Science, or Literature	3	Science	3
	<b>11-12</b>		<b>12</b>

**Total Credits 112-115**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

**ADVISING AND CAREERS****ADVISING**

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

**ASSIGNED ACADEMIC AND CAREER COACHES**

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

**ACCESSING ADVISING**

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

**CAREERS**

Students who pursue a major in management go on to careers in a wide range of fields. To find more information about common industries that management majors work in following graduation, please visit our website (<https://business.wisc.edu/undergraduate/majors/management-human-resources/>).

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

**PEOPLE****FACULTY AND STAFF IN MANAGEMENT AND HUMAN RESOURCES**

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

**ACCREDITATION****ACCREDITATION**

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

**BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP**

**Admissions to the Business: Management and Human Resources: Entrepreneurship named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

**REQUIREMENTS****ENTREPRENEURSHIP OPTION**

A student must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 422	Entrepreneurial Management	3
M H R 427	Entrepreneurial Growth Strategies	3
	<i>Select two of following courses OR one from below and one from the elective options:</i>	6
M H R 365	Contemporary Topics (Creative Destruction Lab I and II) <sup>1</sup>	

M H R 399	Reading and Research-Management (Double counting of M H R 399 across options within the M H R major is prohibited.)
M H R 434	Venture Creation
M H R 441	Technology Entrepreneurship
FINANCE 457	Entrepreneurial Finance
<b>Total Credits</b>	<b>12</b>

1

Must take both Creative Destruction Lab I and Creative Destruction Lab II (3 credits total).

Code	Title	Credits
<i>Electives</i>		
M H R 305	Human Resource Management	
M H R 310	Challenges & Solutions in Business Sustainability	
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
M H R 420	Managing Change and Organizational Effectiveness	
M H R 423	Strategic Management	
M H R 604	Leadership Theory and Practice	
M H R 628	Negotiations	
M H R/ INTEGART 632	Introduction to Arts Entrepreneurship	
M H R/ INTEGART 636	Entrepreneurship in Arts & Cultural Organizations	

## FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
	<b>12</b>		<b>13</b>

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
M H R 300	3	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ECON 102	4	OTM 300	3		
ACCT I S 100	3	M H R 434	3		
GEN BUS 360	3	MARKETNG 300	3		
	<b>16</b>		<b>15</b>		<b>3</b>

### Junior

Fall	Credits	Spring	Credits
M H R 422	3	M H R 399, FINANCE 457, M H R 305, M H R 310, M H R 365, M H R 401, M H R 403, M H R 412, M H R 423, M H R 441, or M H R 628	3
Ethics <sup>1</sup>	3-4	Business Breadth	3
Communications B	3-4	Elective	3
Elective	3	Elective	3
Elective	3		

**15-17**

**12**

### Senior

Fall	Credits	Spring	Credits
GEN BUS 301	3	M H R 427	3
Humanities, Social Science, or Literature	3	Business Breadth	3
Humanities, Social Science, or Literature	3	Science	3
Elective	3	Elective	3

**12**

**12**

### Total Credits 110-112

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

## BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP/HUMAN RESOURCES

**Admissions to the Business: Management and Human Resources: Entrepreneurship/Human Resources named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

## REQUIREMENTS

### ENTREPRENEURSHIP & HUMAN RESOURCES OPTION

This double option requires 21 credits; the layout of classes are found below:

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 422	Entrepreneurial Management	3
M H R 427	Entrepreneurial Growth Strategies	3
M H R 434	Venture Creation <sup>1</sup>	3
or FINANCE 457	Entrepreneurial Finance	
or M H R 399	Reading and Research-Management	
<i>Complete 3 of the following OR 2 of the following and 1 elective:</i>		9
M H R 610	Compensation: Theory and Administration	
M H R 611	Strategic Talent Management	
M H R 612	Labor-Management Relations	
M H R 614	People Analytics	
<i>Electives:</i>		
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management <sup>1</sup>	
M H R 420	Managing Change and Organizational Effectiveness	
M H R 423	Strategic Management	
M H R 441	Technology Entrepreneurship	
M H R 617	Diversity in Organizations	
M H R 628	Negotiations	
M H R/INTEGART 632	Introduction to Arts Entrepreneurship	
M H R/INTEGART 636	Entrepreneurship in Arts & Cultural Organizations	
R M I 620	Employee Benefits Management	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup>  
Double counting of M H R 399 Reading and Research-Management within this option is prohibited.

## FOUR-YEAR PLAN

Freshman		
Fall	Credits	Spring
MATH 211	5	ECON 101
GEN BUS 110	1	PSYCH 202
Ethnic Studies	3	Science
Communications A	3	Humanities, Social Science, or Literature
	<b>12</b>	<b>13</b>

Sophomore			
Fall	Credits	Spring	Credits
ECON 102	4	GEN BUS 307	3
		FINANCE/	3
		ECON 300	
GEN BUS 306	3	ACCT I S 211	3
ACCT I S 100	3	OTM 300	3
M H R 300	3	MARKETNG 30C	3

GEN BUS 360	3	M H R 305	3
	<b>16</b>		<b>15</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
M H R 422	3	M H R 434, 399, or FINANCE 457	3
Ethics <sup>1</sup>	3-4	Business Breadth	3
Communications B	3-4	Humanities, Social Science, or Literature	3
Elective	3	Elective	3
Elective	3	Elective	3
	<b>15-17</b>		<b>15</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
M H R 610, 611, 365, 399, 423, or 628	3	M H R 612	3
M H R 610 or 611	2-3	M H R 427	3
GEN BUS 301	3	Business Breadth	3
Humanities, Social Science, or Literature	3	Science	3
	<b>11-12</b>		<b>12</b>

**Total Credits 112-115**  
<sup>1</sup>  
Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

# BUSINESS: MANAGEMENT AND HUMAN RESOURCES: ENTREPRENEURSHIP/ MANAGEMENT

**Admissions to the Business: Management and Human Resources: Entrepreneurship/Management named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

## REQUIREMENTS

### MANAGEMENT & ENTREPRENEURSHIP OPTION

This double option requires 18 credits; the layout of classes is found below:

Code	Title	Credits
M H R 422	Entrepreneurial Management	3
M H R 423	Strategic Management	3



M H R 427	Entrepreneurial Growth Strategies	3
M H R 434	Venture Creation <sup>1</sup>	3
or FINANCE 457	Entrepreneurial Finance	
or M H R 399	Reading and Research-Management	
<i>Choose two of the following:</i>		6
M H R 305	Human Resource Management	
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management <sup>1</sup>	
M H R 401	The Management of Teams	
M H R/INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
M H R 420	Managing Change and Organizational Effectiveness	
M H R 441	Technology Entrepreneurship	
M H R 604	Leadership Theory and Practice	
M H R 617	Diversity in Organizations	
M H R/INTEGART 632	Introduction to Arts Entrepreneurship	
M H R/INTEGART 636	Entrepreneurship in Arts & Cultural Organizations	

**Total Credits 18**

<sup>1</sup> Double counting of M H R 399 Reading and Research-Management within this option is prohibited.

## FOUR-YEAR PLAN

Freshman			
Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
		<b>12</b>	<b>13</b>

Sophomore					
Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		
GEN BUS 360	3	M H R 305, 399, 401, 403, or 412	3		
		<b>16</b>	<b>15</b>		<b>3</b>

Junior			
Fall	Credits	Spring	Credits
M H R 422	3	Business Breadth	3

M H R 423	3	Humanities, Social Science, or Literature	3
Communications B	3-4	Elective	3
Ethics <sup>1</sup>	3-4	Elective	3
Elective	3	M H R 305, 399, 401, 403, or 412	3

Senior			
Fall	Credits	Spring	Credits
M H R 434, 399, or FINANCE 457	3	M H R 427	3
Humanities, Social Science, or Literature	3	Business Breadth	3
GEN BUS 301	3	Science	3
Elective	3	Elective	3
Elective	3		
		<b>15-17</b>	<b>15</b>
		<b>15</b>	<b>12</b>

**Total Credits 116-118**

<sup>1</sup> Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

## BUSINESS: MANAGEMENT AND HUMAN RESOURCES: HUMAN RESOURCES

**Admissions to the Business: Management and Human Resources: Human Resources named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

### HUMAN RESOURCES OPTION

Students in human resources management study how organizations attract, motivate, develop, and retain employees, and how they interact with organizations representing employees. Topics covered include recruiting, external and internal staffing, compensation theory and administration, performance management, training and development, labor-management relations, and equal employment opportunity. This concentration is pursued by students seeking staff jobs in the human resources department, supervisory and team leader jobs, and entry into management training programs that precede job placement. It is appropriate for those who seek positions in both public and private sector organizations.

## REQUIREMENTS

A student must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 305	Human Resource Management	3
<i>Complete 3 of the following HR electives OR 2 of the following and 1 Management elective:</i>		9-10
M H R 420	Managing Change and Organizational Effectiveness	
M H R 610	Compensation: Theory and Administration	
M H R 611	Strategic Talent Management	
M H R 612	Labor-Management Relations	
M H R 614	People Analytics	
<b>Management Electives</b>		
M H R 365	Contemporary Topics	
M H R 399	Reading and Research-Management (Double counting of M H R 399 across options within the M H R major is prohibited.)	
M H R 401	The Management of Teams	
M H R/ INTL BUS 403	Global Issues in Management	
M H R 412	Management Consulting	
M H R 423	Strategic Management	
M H R 604	Leadership Theory and Practice	
M H R 617	Diversity in Organizations	
M H R 628	Negotiations	
ECON 450	Wages and the Labor Market	
R M I 620	Employee Benefits Management	
<b>Total Credits</b>		<b>12-13</b>

## FOUR-YEAR PLAN

<b>Freshman</b>			
Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
<b>12</b>		<b>13</b>	

<b>Sophomore</b>					
Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		
GEN BUS 360	3	M H R 305	3		
<b>16</b>		<b>15</b>		<b>3</b>	

<b>Junior</b>			
Fall	Credits	Spring	Credits
M H R 610 or 611	2-3	M H R 612	3

Communications B	3-4 Business Breadth	3
Ethics <sup>1</sup>	3-4 Elective	3
Elective	3 Elective	3
Elective	3	
<b>14-17</b>		<b>12</b>

<b>Senior</b>			
Fall	Credits	Spring	Credits
GEN BUS 301	3	Business Breadth	3
Elective	3	Science	3
Humanities, Social Science, or Literature	3	Elective	3
Humanities, Social Science, or Literature	3	M H R 612, 365, 399, 423, 628, or R M I 620	3
<b>12</b>		<b>12</b>	

**Total Credits 109-112**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

# BUSINESS: MANAGEMENT AND HUMAN RESOURCES: MANAGEMENT

**Admissions to the Business: Management and Human Resources: Management named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

## MANAGEMENT OPTION

This major focuses on the activities of management in organizations. Course material covers leadership, power, decision-making, organizational structure and change, strategy and policy, and the integration of organizational functions (such as marketing and finance). The topics apply to business, government, health care, and other service organizations. This concentration is especially appropriate for students who seek roles as general managers and administrators at all levels of an organization, rather than roles as technical specialists. Students are also helped in developing a long-term perspective of both their own careers and the function of management in organizations and society.

## REQUIREMENTS

Students must take a minimum of 12 credits, distributed as follows:

Code	Title	Credits
M H R 423	Strategic Management	3
<i>Complete 3 of the following OR 2 of the following and 1 elective</i>		9
M H R 305	Human Resource Management	

M H R 399	Reading and Research-Management (Double counting of M H R 399 across options within the M H R major is prohibited.)
M H R 401	The Management of Teams
M H R/ INTL BUS 403	Global Issues in Management
M H R 412	Management Consulting
M H R 420	Managing Change and Organizational Effectiveness
<i>Electives:</i>	
M H R 310	Challenges & Solutions in Business Sustainability
M H R 365	Contemporary Topics
M H R 422	Entrepreneurial Management
M H R 427	Entrepreneurial Growth Strategies
M H R 604	Leadership Theory and Practice
M H R 611	Strategic Talent Management
M H R 617	Diversity in Organizations
M H R 628	Negotiations
COM ARTS 575	Communication in Complex Organizations
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care
PSYCH/ISY E 349	Introduction to Human Factors
PSYCH/ISY E 653	Organization and Job Design
SOC 632	Sociology of Organizations

**Total Credits** 12

## FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
	<b>12</b>		<b>13</b>

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		
GEN BUS 360	3	M H R 305, 399, 401, 403, or 412	3		
	<b>16</b>		<b>15</b>		<b>3</b>

### Junior

Fall	Credits	Spring	Credits
M H R 423	3	M H R 305, 399, 401, 403, or 412	3
Ethics <sup>1</sup>	3-4	Business Breadth	3
Communications B	3-4	Elective	3
Elective	3	Elective	3
	<b>12-14</b>		<b>12</b>

### Senior

Fall	Credits	Spring	Credits
GEN BUS 301	3	M H R 305, 399, 401, 403, 412, 310, 365, 422, 427, or 628	3
Humanities, Social Science, or Literature	3	Business Breadth	3
Humanities, Social Science, or Literature	3	Elective	3
Elective	3	Science	3
	<b>12</b>		<b>12</b>

**Total Credits 107-109**

## BUSINESS: MANAGEMENT AND HUMAN RESOURCES: MANAGEMENT/HUMAN RESOURCES

**Admissions to the Business: Management and Human Resources: Management/Human Resources named option will be suspended in fall 2024 and discontinued in fall 2028. If you have any questions, please contact the department.**

## REQUIREMENTS

### MANAGEMENT & HUMAN RESOURCES OPTION

This double option requires 18 credits; the layout of classes is found below:

Code	Title	Credits
M H R 305	Human Resource Management	3
M H R 423	Strategic Management	3
<i>Complete 2 of the following:</i>		6
M H R 610	Compensation: Theory and Administration	
M H R 611	Strategic Talent Management	
M H R 612	Labor-Management Relations	
M H R 614	People Analytics	

*Complete 2 of the following OR 1 of the following and 1 elective:* 6

M H R 399	Reading and Research-Management
M H R 401	The Management of Teams
M H R/ INTL BUS 403	Global Issues in Management
M H R 412	Management Consulting
M H R 420	Managing Change and Organizational Effectiveness
M H R 604	Leadership Theory and Practice
M H R 617	Diversity in Organizations
<i>Electives:</i>	
M H R 310	Challenges & Solutions in Business Sustainability
M H R 365	Contemporary Topics
M H R 422	Entrepreneurial Management
M H R 427	Entrepreneurial Growth Strategies
M H R 628	Negotiations

**Total Credits** **18**

## FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits
MATH 211	5	ECON 101	4
GEN BUS 110	1	PSYCH 202	3
Communications A	3	Science	3
Ethnic Studies	3	Humanities, Social Science, or Literature	3
	<b>12</b>		<b>13</b>

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
ECON 102	4	GEN BUS 307	3	FINANCE/ ECON 300	3
GEN BUS 306	3	ACCT I S 211	3		
ACCT I S 100	3	OTM 300	3		
M H R 300	3	MARKETNG 30C	3		
GEN BUS 360	3	M H R 305	3		
	<b>16</b>		<b>15</b>		<b>3</b>

### Junior

Fall	Credits	Spring	Credits
Communications B	3-4	M H R 423	3
Ethics <sup>1</sup>	3-4	Business Breadth	3
Elective	3	Humanities, Social Science, or Literature	3
M H R 401, 399, 403, or 412	3	Humanities, Social Science, or Literature	3
	<b>12-14</b>		<b>12</b>

### Senior

Fall	Credits	Spring	Credits
GEN BUS 301	3	M H R 612	3
Elective	3	Business Breadth	3
M H R 610 or 611	2-3	Science	3
Elective	3	M H R 401, 399, 403, 412, 310, 365, 422, 427, or 628	3
	<b>11-12</b>		<b>12</b>

**Total Credits 106-109**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

## BUSINESS: MANAGEMENT, BBA

The first term for enrollment in the BBA degree in Business: Management is **fall 2024**.

Founded in 1900, the Wisconsin School of Business established one of the first five business programs in the nation. That entrepreneurial spirit remains strong.

As a student in the Wisconsin School of Business, you will find yourself inspired by peers, staff, alumni, business leaders, and world-renowned faculty who are focused, collaborative, and engaged in every aspect of the student experience. You will join a highly-ranked program that equips you to meet both academic and career challenges. Employers value Wisconsin School of Business graduates because of the comprehensive preparation this learning environment provides. Graduates possess highly sought-after general management and specialized expertise in business.

Joining collaborative, inspiring, trustworthy, and progressive Wisconsin School of Business alumni, Business Badger graduates are prepared to lead their organizations to success and transform the world of business. Together Forward!

## BACHELOR OF BUSINESS ADMINISTRATION IN BUSINESS: MANAGEMENT

The BBA in Management (BBAM) degree prepares students to plan, organize, direct, and orchestrate the activities and resources of organizations in various industries and sectors. Students who pursue the BBAM degree will learn how to formulate and implement effective strategies that enable organizations to achieve their vision, mission, and objectives as well as to adapt to changing industry conditions and competitive forces.

The program is open to students who have completed the pre-business requirements and have been admitted to the Wisconsin School of Business. BBAM students will complete a core curriculum that covers the fundamentals of business, such as accounting, finance, marketing, operations, and strategy. Additionally, BBAM students will choose from

a variety of electives that focus on different aspects of management, such as inclusive leadership, organizational behavior, strategic innovation, organizational change, international business, and social responsibility. BBM students will also have the opportunity to participate in experiential learning activities, such as case competitions, consulting projects, and simulations.

The BBAM degree aims to develop students' knowledge and skills in management as well as their professional and ethical values. Students will gain an understanding of the theories and frameworks that underlie management along with practical tools and techniques that are applicable in diverse organizational contexts. They will have the ability to assess the financial, marketing, and operational implications of organizational strategies, identify and appropriate business value through analysis and action, and communicate ideas and recommendations to others. Students will also develop collaboration skills.

The BBAM degree opens up a wide range of career paths for graduates, including roles involving project management, business development, and strategic or financial analysis where an understanding of an organization's strategy, design, process, culture, and context are desirable. Whether they choose to work as managers or consultants, entrepreneurs or analysts, BBAM graduates will be equipped with the skills and knowledge to lead private businesses, nonprofit organizations, and public-interest agencies.

## PEOPLE

**For more information about the faculty and their research interests, please visit the directory.**

## ENTREPRENEURSHIP, CERTIFICATE

The undergraduate certificate in entrepreneurship (<https://business.wisc.edu/undergraduate/certificates/entrepreneurship/>) is one of the most popular certificates at UW–Madison. It offers opportunities for **non-business undergraduates** interested in learning the skills for entrepreneurial thinking. These skills are critical both now and in the future if you are starting a new venture, working for a startup, or tackling new ventures within existing organizations. Modern businesses rely heavily on the ability to recognize and seize opportunities. Cutting-edge technologies, innovative business models, and ever-changing market landscapes determine which firms thrive and which do not. Taking initiative, thinking entrepreneurially, and acting upon opportunities are key ingredients of success in this environment.

This certificate program offers a distinct array of courses that combine business entrepreneurship classes with the curricula of several colleges and schools at UW–Madison. Classes in entrepreneurship and related topics provide the skills necessary to succeed throughout a student's career. Student projects outside the classroom with local firms or student ventures provide students with hands-on business experience. This comprehensive certificate program helps prepare students for roles such as business founder, product manager, engineer/scientist, new product designer, marketing or finance professional, nonprofit administrator, or consultant.

## HOW TO GET IN

The certificate is open to undergraduate students who have home departments outside of the School of Business and are in good academic standing. Business undergraduates should explore the entrepreneurship major option.

To declare the certificate in entrepreneurship, go to the Academic Forms (<https://bus.wisc.edu/current-student-resources/bba/academic-support-resources/forms/>) page and complete the declaration form.

## REQUIREMENTS

A total of 15 credits is required to complete the certificate. The required foundation course, advanced entrepreneurship coursework, and electives from across the campus are used to earn the 15 credits. Coursework options available for fulfilling the certificate program are shown in the accompanying tables. Students are strongly encouraged to participate in related non-credit entrepreneurship immersion experiences such as competitions and student organizations.

### Students will:

1. Take one 3-credit required foundation course (M H R 322 OR M H R 422)
2. Choose 3 additional credits from a list of approved School of Business advanced entrepreneurship courses
3. Choose 9 credits of additional courses from a list of approved other electives or advanced entrepreneurship courses.

**At least 9 of the required 15 credits for the certificate must be completed in residence.**

**Students must earn a 2.5 cumulative GPA in all certificate in entrepreneurship coursework.**

## REQUIRED FOUNDATION COURSEWORK

Code	Title	Credits
M H R 322	Introduction to Entrepreneurial Management (restricted to non-business majors)	3
or M H R 422	Entrepreneurial Management	

## ADVANCED ENTREPRENEURSHIP COURSEWORK <sup>1</sup>

Students must choose **at least 3 credits** from the following list of courses:

Code	Title	Credits
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors <sup>2</sup>	3
or ACCT I S 100	Introductory Financial Accounting	
or ACCT I S 300	Accounting Principles	
M H R 434	Venture Creation	3
M H R 427	Entrepreneurial Growth Strategies	3

M H R 441	Technology Entrepreneurship	3
FINANCE 457	Entrepreneurial Finance	3

**1**

Some courses listed have pre-requisites, so please make sure those are satisfied before selecting a course.

**2**

Non-business majors are strongly recommended to take GEN BUS 310 **instead of** ACCT I S 100 or ACCT I S 300.

## ELECTIVE COURSEWORK

9 credits of other elective coursework (below) can be counted toward the required 15 certificate credits.

Code	Title	Credits
<b>BUSINESS</b>		
GEN BUS 311	Fundamentals of Management and Marketing for Non-Business Majors	3
M H R 300	Managing Organizations	3
M H R 305	Human Resource Management	3
M H R 320	New Ventures in Business, the Arts and Social Entrepreneurship	3
M H R 321	Social Entrepreneurship (restricted to students in the StartUp Learning Community)	1
M H R 365	Contemporary Topics (Creative Destruction Lab I)	1
M H R 365	Contemporary Topics (Creative Destruction Lab II)	2
M H R/A A E 540	Intellectual Property Rights, Innovation and Technology	3
M H R 628	Negotiations	3
M H R/ INTEGART 632	Introduction to Arts Entrepreneurship	3
M H R/ INTEGART 636	Entrepreneurship in Arts & Cultural Organizations	3
MARKETNG 300	Marketing Management	3
MARKETNG 355	Marketing in a Digital Age	3
MARKETNG 426	Strategic Retailing	3
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process	3
REAL EST 415	Valuation of Real Estate	3
R M I 300	Principles of Risk Management	3
R M I 650	Sustainability, Environmental and Social Risk Management	3
<b>COLLEGE OF LETTERS AND SCIENCE</b>		
COM ARTS 355	Introduction to Media Production	4
ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics	3
INTL ST/A A E 373	Globalization, Poverty and Development	3
JOURN 447	Strategic Media Planning	4
PHILOS 243	Ethics in Business	3-4
STS 201	Where Science Meets Society	3

### COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/M H R 540	Intellectual Property Rights, Innovation and Technology	3
A A E/ECON/ ENVIR ST/ URB R PL 671	Energy Economics	3
LSC 250	Research Methods in the Communication Industry	3
LSC 270	Marketing Communication for the Sciences	3
LSC 350	Visualizing Science and Technology	3
LSC 432	Social Media for the Life Sciences	3
LSC 435	Brand Strategy for the Sciences	3
LSC 440	Digital Media and Science Communication	3
LSC 625	Risk Communication	3
LSC 640	Case Studies in the Communication of Science and Technology	3

### COLLEGE OF ENGINEERING

ISY E 313	Engineering Economic Analysis	3
ISY E/PSYCH 653	Organization and Job Design	3
ISY E/B M E 662	Design and Human Disability and Aging	3
M E 349	Engineering Design Projects	3
M E 351	Interdisciplinary Experiential Design Projects I	3
M E 352	Interdisciplinary Experiential Design Projects II	3
M E 549	Product Design	3

### SCHOOL OF HUMAN ECOLOGY

CNSR SCI 250	Retail Leadership Symposium	1
CNSR SCI 257	Introduction to Retail	2
CNSR SCI 555	Consumer Design Strategies & Evaluation	3
CNSR SCI 561	Consumer Engagement Strategies	3
CNSR SCI 567	Product Development Strategies in Retailing	3
CNSR SCI 665	Household Risk Management	3

### SCHOOL OF EDUCATION

ART 338	Service Learning in Art	2
KINES 312	Technology for Physical Activity and Health Professionals	2
THEATRE 260	Producing Theatre	3
THEATRE 501	The Business of Acting	3

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Correctly demonstrate knowledge of basic market discovery techniques and apply basic market discovery techniques.
2. Demonstrate proficiency in knowing the basic steps taken to start a new venture.
3. Demonstrate knowledge of career paths in entrepreneurship (M H R 322 Introduction to Entrepreneurial Management/M H R 422 Entrepreneurial Management).

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Students who have declared the Certificate in Entrepreneurship will be assigned to the Business Certificate Advising and Career Committees.

## MARKETING

Marketing creates exchanges between organizations and customers. It includes planning, designing, pricing, promoting and distributing goods and services that satisfy organizational and customer needs. In the high-level economy of the United States and many other countries, marketing has become a critical and comprehensive business function. The concept of marketing is becoming increasingly broad and important. Students may pursue career opportunities in: Advertising/PR/Communication, Digital Marketing, General Marketing, Marketing Research/Analyst, Merchandising/Buyer/Planner, Product/Brand Management, Business-to-Business (B2B), Sales/Business Development, Sports Marketing & Communication and Supply Chain Management.

Contemporary marketing managers must understand not only the traditional areas of marketing channels, sales management, advertising, and research, but must also be familiar with consumer and dealer motivation. The manager must be able to translate knowledge of consumer behavior into marketing strategy. The marketing program is broad enough to permit a major to develop knowledge in these several areas, but flexible enough so that students may focus on special interest areas.

## DEGREES/MAJORS/CERTIFICATES

- Business Administration: Marketing, BBA (p. 1519)
- Business: Marketing, BBA (p. 1522)

## BUSINESS ADMINISTRATION: MARKETING, BBA

If you're a strategic thinker and a creative problem-solver, then advancing in a career in marketing could be a good choice for you. Marketing is a diverse field that involves in-demand skills desired by top employers, large and small. It's also a growing field, particularly in the digital realm. Successful marketers will be analytical, creative and know how to leverage technology.

The UW-Madison Online BBA in Marketing provides a robust foundation in business. From the highly ranked School of Business, you will gain valuable skills in communication, collaboration, creativity, relationship building and planning. You will learn to implement strategies related to product, place/distribution, price and promotion; analyze market segments and generate effective plans; leverage relevant sources to determine and support marketing actions; and apply analytical rigor to decisions.

Graduates pursue a variety of careers in marketing, including brand/product management, marketing research/analytics, sales management, advertising, business-to-business marketing, digital and social media, consulting, and supply chain management. You could be a product manager, social media strategist or market research analyst, among other dynamic jobs.

## HOW TO GET IN

Students applying to the BBA in Business Administration-Marketing program apply through UW-Madison Online (<https://online.wisc.edu/>). UW-Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). UW-Madison re-entry students may also be considered. For more information, visit the UW-Madison Online admissions website (<https://online.wisc.edu/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in

business and economics. This curriculum is designed for those students who wish to prepare for careers in business.

## PRE-BUSINESS REQUIREMENTS

Code	Title	Credits
<b>Communication Part A</b>		
Complete one course designated Communication Part A, preferably:		0-3
COM ARTS 100	Introduction to Speech Composition	
ENGL 100	Introduction to College Composition	
ESL 118	Academic Writing II	
Completion of Communication Part A based on UW Placement Test		
<b>Economics</b>		
ECON 101 or ECON 111	Principles of Microeconomics Principles of Economics-Accelerated Treatment	4
<b>Psychology</b>		
PSYCH 202	Introduction to Psychology	3-4
<b>Math</b>		
Three credits satisfied by placement exam or one of the following courses:		3
Math 112, 113, 114, 171, 211, 213, 217, 221, or 222		
<b>Total Credits</b>		<b>10-14</b>

## LIBERAL STUDIES REQUIREMENTS

Liberal studies requirements must be completed prior to graduation.

**Students may not use courses offered by the Department of Economics or by the School of Business to fulfill liberal studies requirements. In addition, a single course may not be used to fulfill multiple liberal studies requirements.**

Code	Title	Credits
<b>Literature</b>		
Select one 3 (or more) credit course designated Literature (L)		3
<b>Science</b>		
Select six credits designated Biological, Natural or Physical Science. Courses that MAY NOT COUNT include: Courses in Computer Science, Mathematics, Statistics or Economics.		6
<b>Ethics</b>		
Select one of the following:		3-4
PHILOS 241	Introductory Ethics	
PHILOS 243	Ethics in Business	
PHILOS 341	Contemporary Moral Issues	
PHILOS/ ENVIR ST 441	Environmental Ethics	
<b>Humanities</b>		
Select one 3 (or more) credit course designated Humanities (H or Z) <sup>1</sup>		3
<b>Ethnic Studies</b>		
Select one 3 (or more) credit course designated Ethnic Studies (e)		3
<b>Social Science</b>		

Select one 3 (or more) credit course designated Social Science (S or Z)	3
<b>Total Credits</b>	<b>21-22</b>

1

**Note:** If a student completes an additional Literature (L) course, this requirement will be satisfied.

## BUSINESS FOUNDATION REQUIREMENTS

All BBA degree candidates are required to complete foundation courses in business and economics. The foundation courses, in conjunction with a broad educational base, are designed to integrate the student's specialized training with an understanding of the structure and functions of business and its role in the larger social system. Business foundation courses make up the business preparatory, core, and breadth requirements. Sequencing of courses in business preparatory, core, and breadth sections may vary based on a student's academic plan or major. Consult with your academic advisor for specific recommendations.

## BUSINESS PREPARATORY REQUIREMENT

All students must take the following:

Code	Title	Credits
GEN BUS 110	Personal and Professional Foundations in Business	1
GEN BUS 106	Foundational Skills for Business Analysis	1
GEN BUS 206	Beginning Data Analysis for Business	3
GEN BUS 207	Intermediate Data Analysis for Business	3
GEN BUS 360	Workplace Writing and Communication	3
ECON 102 or ECON 111	Principles of Macroeconomics Principles of Economics-Accelerated Treatment	3-4
ACCT I S 100	Introductory Financial Accounting	3
ACCT I S 211	Introductory Managerial Accounting	3
<b>Total Credits</b>		<b>20-21</b>

## BUSINESS CORE REQUIREMENT

Code	Title	Credits
FINANCE/ ECON 300	Introduction to Finance	3
MARKETNG 300	Marketing Management	3
M H R 300	Managing Organizations	3
OTM 300	Operations Management	3
<b>Total Credits</b>		<b>12</b>

Code	Title	Credits
<b>Business Breadth Requirement</b>		
GEN BUS 301	Business Law	3
Business Breadth Course <sup>1</sup>		3



Business Breadth Course <sup>1</sup>	3
<b>Total Credits <sup>2</sup></b>	<b>3-9</b>

**1**

Students must complete two business courses (3 credits each) that are outside their major from two separate School of Business departments. Courses taken to satisfy this requirement may not include preparatory or core courses, courses required by or cross-listed with the student's major, general business courses, any 399 (Readings and Research) course, or business courses cross-listed with foreign language departments. Courses taken at another institution must be directly equivalent to a UW-Madison business course and title (i.e. not elective credit which is sometimes given an X10 course number).

**2**

Students with two majors in business or students with one major and a business related certificate need only one course (3 credits) outside their majors/certificate to satisfy this requirement. Students with three or more business majors or two majors and a business related certificate are not required to take additional breadth courses.

## CREDITS FOR BBA DEGREE CREDIT REQUIREMENTS

Candidates for the BBA degree must meet all of the following credit requirements in addition to completing the required coursework.

### 120 Degree Credits

All students who plan to graduate from the University of Wisconsin-Madison with a bachelor's degree must complete a minimum of 120 degree credits.

## BBA IN BUSINESS ADMINISTRATION - MARKETING MAJOR REQUIREMENTS

The BBA in Business Administration - Marketing major is a total of 18 credits consisting of the following 6 required courses.

Code	Title	Credits
MARKETNG 305	Consumer Behavior	3
MARKETNG 310	Marketing Research	3
MARKETNG 355	Marketing in a Digital Age	3
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG 430	Strategic Pricing	3
MARKETNG 460	Marketing Strategy	3
<b>Total Credits</b>		<b>18</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Apply analytical rigor to marketing decisions.
2. Locate, evaluate, and leverage relevant sources to determine and support their marketing actions.
3. Demonstrate the ability to formulate and implement marketing strategies related to product, place/distribution, price, promotion.
4. Demonstrate the ability to evaluate and analyze appropriate market segments and generate effective marketing plans.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ACCESSING ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with current School of Business advisors in the Wisconsin BBA Advising Center to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

## CAREERS

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors help prepare students for life post-graduation through individual and group advising.

## PEOPLE

## FACULTY AND STAFF IN MARKETING

**For more information about the faculty and their research interests, please visit the** [directory](https://business.wisc.edu/directory/) (<https://business.wisc.edu/directory/>).

## ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS: MARKETING, BBA

Marketing facilitates exchanges between organizations and customers and is a critical, dynamic, and multi-faceted area of business. The marketing function is found throughout organizations and businesses from global enterprises to start-ups; for services such as healthcare and banking; for nonprofits and municipalities. Students may pursue a variety of careers in marketing including: Advertising/PR/Communication, Digital Marketing, General Marketing, Marketing Research/Analyst, Merchandising/Buyer/Planner, Product/Brand Management, Business-to-Business (B2B), Sales/Business Development, Sports Marketing & Communication and Supply Chain Management.

In the marketing major, students learn the foundations of marketing—product, place, price, promotion—and how these concepts impact business strategy and execution in different industries and contexts, as well as the importance of relationships with customers and channel partners. Marketing professionals possess and develop a variety of skills including qualitative and quantitative analysis, critical thinking, creativity, communications, and problem solving. The marketing major (<https://business.wisc.edu/undergraduate/majors/marketing/>) provides a robust foundation in the marketing discipline, coupled with the flexibility to pursue several areas of interest in the discipline.

## RECOGNITION

The Marketing Department at the School of Business was ranked 8th in the United States by *U.S. News & World Report* for 2022–2023.

## RELATED STUDENT ORGANIZATIONS

Mu Kappa Tau (MKT) (<https://www.mktmadison.club/>)

American Marketing Association (AMA) (<https://win.wisc.edu/organization/amauwmadison/>)

## HOW TO GET IN

Students wishing to pursue this major on campus must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## MARKETING MAJOR REQUIREMENTS

All marketing majors must take MARKETNG 300 Marketing Management, which is a business core course and a prerequisite for most of the undergraduate marketing courses. In addition to MARKETNG 300, the major consists of three required marketing courses and a minimum of nine additional MARKETNG credits. These required and elective courses can be taken in any order, with the exception of MARKETNG 460 Marketing Strategy. MARKETNG 460 should be taken after completing MARKETNG 305 Consumer Behavior and MARKETNG 310 Marketing Research and preferably in the final year of the major.

Code	Title	Credits
MARKETNG 305	Consumer Behavior	3
MARKETNG 310	Marketing Research	3
MARKETNG 460	Marketing Strategy	3
<b>Elective Coursework</b> <sup>1</sup>		

Select a minimum of 9 additional MARKETNG credits. 9

**Total Credits** 18

1

Elective coursework may follow a specific "career path" if students choose.

## POTENTIAL MARKETING CAREER GUIDANCE AND CAREER PATHS

For further information on recommended electives and career paths, see the Department of Marketing website linked within the Contact Information box.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate the ability to formulate and implement marketing strategies related to product, place/distribution, price, promotion.
2. Demonstrate the ability to evaluate and analyze appropriate market segments and generate effective marketing plans.
3. Locate, evaluate, and leverage relevant sources to determine and support their marketing actions.
4. Apply analytical rigor to marketing decisions.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits	Summer	Credits
ECON 101	4	ECON 102	4	OTM 300, FINANCE 300, or M H R 300	3
PSYCH 202	3	MATH 211	3		

Science	3	Communications A	3
Humanities, Social Science, or Literature	3	Ethnic Studies	3
GEN BUS 110	1		
	<b>14</b>		<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
GEN BUS 306	3	GEN BUS 307	3	OTM 300, M H R 300, or FINANCE 300	3
ACCT I S 100	3	ACCT I S 211	3		
MARKETNG 300	3	MARKETNG 305	3		
Humanities, Social Science, or Literature	3	GEN BUS 360	3		
Communications B	3-4	OTM 300, M H R 300, or FINANCE 300	3		
	<b>15-16</b>		<b>15</b>		<b>3</b>

### Junior

Fall	Credits	Spring	Credits
MARKETNG 310	3	Marketing Elective 2	3
Marketing Elective 1	3	Business Breadth	3
Ethics <sup>1</sup>	4	Elective	3
Humanities, Social Science, or Literature	3	Elective	3
	<b>13</b>		<b>12</b>

### Senior

Fall	Credits	Spring	Credits
MARKETNG 460	3	Business Breadth	3
GEN BUS 301	3	Elective	3
Marketing Elective 3	3	Elective	3
Elective		Elective	3
	<b>9</b>		<b>12</b>

### Total Credits 111-112

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics

## ADVISING AND CAREERS

## ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a

wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

## ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

## ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

## CAREERS

The marketing function is found throughout all organizations and businesses from global enterprises to start-ups; for services such as healthcare and banking; for non-profits and municipalities. Students may pursue a variety of careers in: Advertising/PR/Communication, Digital Marketing, General Marketing, Marketing Research/Analyst, Merchandising/Buyer/Planner, Product/Brand Management, Business-to-Business (B2B), Sales/Business Development, Sports Marketing & Communication and Supply Chain Management.

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

## FACULTY AND STAFF IN MARKETING

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## OPERATIONS AND INFORMATION MANAGEMENT

The Department of Operations and Technology Management administers the operations and technology management major, the information systems major, and the supply chain management major.

The Operations and Technology Management (OTM) major focuses on the design, production, and delivery of products and services to satisfy customer needs. It equips students with the essential tools and strategies to use resources efficiently, make desirable trade-offs, and strategically redesign or restructure operations. OTM majors distinguish themselves by strong analytical and problem-solving capabilities together with the ability to provide high-level managerial insights into value-based service and production management.

Built on a solid foundation of a business and information technology (IT) curriculum, the major in Information Systems delivers a unique blend of business acumen, industry standards, and practical computing instruction. Students enjoy successful placement and satisfying careers because they possess both the in-depth knowledge of business processes and the ability to readily translate business requirements into value-added IT solutions. The curriculum is designed to prepare effective leaders in the design, development, and management of information systems—the lifeblood of a successful business model. Students learn how to use computer technologies to analyze business problems and processes in order to design and implement computer-based information systems which support business operations, decision-making, and planning. Career opportunities exist in management consulting and in industry in the areas of systems development, database administration, network management and as corporate information systems managers.

The field of supply chain management (SCM) is a critical area of competitive advantage for businesses around the world. SCM integrates business functions concerned with the movement of goods, services, and information along the value chain with the goal of creating value for the end customer. Supply Chain Management majors learn how to develop appropriate strategies through exploration of logistics, routes to market, analytics, sourcing, and IT systems. In today's complex business environment, there is a need to coordinate these supply chain functions not only within the firm, but with business partners and customers.

## DEGREES/MAJORS/CERTIFICATES

- Business: Information Systems, BBA (p. 1525)
- Business: Operations and Technology Management, BBA (p. 1527)
- Business: Supply Chain Management, BBA (p. 1531)

## BUSINESS: INFORMATION SYSTEMS, BBA

Built on a solid foundation of a business and information technology (IT) curriculum, the major in Information Systems (<https://business.wisc.edu/undergraduate/majors/information-systems/>) delivers a unique blend of business acumen, industry standards, and practical computing instruction. Students enjoy successful placement and satisfying careers because they possess both the in-depth knowledge of business processes and the ability to readily translate business requirements into value-added IT solutions. The curriculum is designed to prepare effective leaders in the design, development, and management of information systems—the lifeblood of a successful business model. Courses emphasize both individual and team projects based on actual applications of the subject matter.

The major in Information Systems is administered by the Department of Operations and Information Management.

### RELATED STUDENT ORGANIZATIONS

Information Systems Society (<https://win.wisc.edu/organization/informationssystemssociety/>)

### HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## INFORMATION SYSTEMS MAJOR REQUIREMENTS

The information systems major is a total of 16 credits, distributed as follows:

Code	Title	Credits
INFO SYS 322	Introduction to Databases	3
COMP SCI 220	Data Science Programming I	4
INFO SYS 371	Technology of Computer-Based Business Systems	3
INFO SYS 424	Systems Analysis and Design	3
INFO SYS 365	Contemporary Topics	3
<b>Total Credits</b>		<b>16</b>

## SUGGESTED ELECTIVES RELATED TO INFORMATION SYSTEMS

Code	Title	Credits
COMP SCI 300	Programming II	3
COMP SCI 400	Programming III	3
INFO SYS 365	Contemporary Topics	1-3
ISY E/PSYCH 349	Introduction to Human Factors	3

ISY E 575	Introduction to Quality Engineering	3
ISY E 601	Special Topics in Industrial Engineering	1-3
MARKETNG 310	Marketing Research	3
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG/ OTM 427	Information Technology in Supply Chains	3
M H R 412	Management Consulting	3
M H R 422	Entrepreneurial Management	3
M H R 423	Strategic Management	3
OTM 351	Principles and Techniques of Quality Management	3
OTM 451	Service Operations Management	3
OTM 452	Project Management	3
OTM 453	Operations Analytics	3
OTM 654	Production Planning and Control	2-3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Understand how to manage data, model information, and apply appropriate information technology to create effective business solutions.
2. Understand how to use computer technologies to analyze business problems and processes.
3. Design and implement computer-based information systems which support business operations, decision-making, and planning.
4. Develop proficiency in project management, consulting, teamwork, conflict resolution, time management, and oral and written communication skills.
5. Effectively lead organizations in the design, development, and management of information systems.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits
MATH 211		5 GEN BUS 306	3
GEN BUS 106		1 ECON 101	4
GEN BUS 110		1 PSYCH 202	3
Ethnic Studies		3 Literature	3
Communications A		3 Science	3
		<b>13</b>	<b>16</b>

### Sophomore

Fall	Credits	Spring	Credits
GEN BUS 307		3 COMP SCI 220	4
INFO SYS 322		3 GEN BUS 360	3
ECON 102		4 ACCT I S 211	3
ACCT I S 100		3 MARKETNG 300	3
Elective		2-3 OTM 300	3
		<b>15-16</b>	<b>16</b>

### Junior

Fall	Credits	Spring	Credits
INFO SYS 371		3 INFO SYS 365	3
FINANCE/ECON 300		3 Business Breadth	3
Business Breadth		3 INFO SYS 424	3
M H R 300		3 Humanities	3
Science		3 Ethics <sup>1</sup>	3-4
		<b>15</b>	<b>15-16</b>

### Senior

Fall	Credits	Spring	Credits
GEN BUS 301		3 Elective	3
Social Science		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
Elective		3 Elective	3
		<b>15</b>	<b>15</b>

### Total Credits 120-122

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, ENVIR ST/PHILOS 441 Environmental Ethics

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a

wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

## ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

## ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

## CAREERS

Information systems professionals help clients address some of their most complex business problems through the effective use of technology. They see pathways to solutions of highly complex technical issues and are key leaders in conceptualizing and sourcing the best solutions. Information systems professionals collect, store, and analyze information and data to assist organizations and departments in executing business initiatives and making informed decisions. In addition, they use hardware, software, technology infrastructure combined with input from internal or external clients to develop tools to solve and track business objectives.

For more information about careers in information systems, please visit our Undergraduate Info Systems website (<https://business.wisc.edu/undergraduate/majors/information-systems/>).

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### FACULTY AND STAFF IN INFORMATION SYSTEMS

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International–The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS: OPERATIONS AND TECHNOLOGY MANAGEMENT, BBA

The Operations and Technology Management (<https://business.wisc.edu/undergraduate/majors/operations-technology-management/>) (OTM) major focuses on the design, production, and delivery of products and services to satisfy customer needs. It equips students with the essential tools and strategies to use resources efficiently, make desirable trade-offs, and strategically redesign or restructure operations. OTM majors distinguish themselves by strong analytical and problem-solving capabilities together with the ability to provide high-level managerial insights into value-based service and production management.

OTM majors have many career opportunities due to their process orientation and analytical training. They are especially well-equipped for positions in supply chain management and logistics, business analytics, management consulting, service operations management, and manufacturing management.

### Related Student Organizations

Badger Operations Association (<https://win.wisc.edu/organization/BOA/>)  
Council of Supply Chain Management Professionals (CSCMP) (<https://cscmp.org/>)

American Society for Quality (<https://asq.org/>)

ASCM–The Association for Supply Chain Management (<https://www.ascm.org/>)

Badger Consulting Club (<https://www.badgerconsultinguw.com/>)

Wisconsin Consulting Club (<https://www.wisconsinconsultingclub.org/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### OPERATIONS AND TECHNOLOGY MANAGEMENT (OTM) MAJOR REQUIREMENTS

It is recommended that the undergraduate core course OTM 300 Operations Management be taken as early as possible in preparation for this major.

Code	Title	Credits
OTM 351	Principles and Techniques of Quality Management	3
or OTM 370	Sustainable Approaches to System Improvement	
OTM 451	Service Operations Management	3
OTM 453	Operations Analytics	3
OTM 654	Production Planning and Control	3
or OTM/ MARKETNG 421	Fundamentals of Supply Chain Management	
or MARKETNG/ OTM 427	Information Technology in Supply Chains	
Complete two elective courses from the suggested tracks (found below)		6
<b>Total Credits</b>		<b>18</b>

### OTM SUGGESTED ELECTIVE COURSES

Any OTM course taken after fulfilling the requirements above will count as an elective course. Non-OTM School of Business courses on the OTM electives list will be used to satisfy the OTM elective requirement first. If the OTM elective requirement is fulfilled, these courses can be used to satisfy the School of Business breadth requirement, provided they are not cross-listed with OTM.

#### SUPPLY CHAIN MANAGEMENT

Code	Title	Credits
OTM 351	Principles and Techniques of Quality Management	3
OTM 370	Sustainable Approaches to System Improvement	3
OTM 654	Production Planning and Control	3
OTM/MARKETNG 421	Fundamentals of Supply Chain Management	3
OTM/MARKETNG 422	Logistics Management	3
OTM/ MARKETNG 423	Procurement and Supply Management	3
OTM/ MARKETNG 427	Information Technology in Supply Chains	3
OTM/ MARKETNG 428	Supply Chain Capital Management	3

#### BUSINESS ANALYTICS

Code	Title	Credits
MARKETNG 310	Marketing Research	3
INFO SYS 322	Introduction to Databases	3
INFO SYS 365	Contemporary Topics	3



INFO SYS 371	Technology of Computer-Based Business Systems	3
INFO SYS 424	Systems Analysis and Design	3

6. Analyze and implement operational business decisions from both strategic and tactical perspectives.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

## BUSINESS PROCESS DESIGN AND IMPROVEMENT

Code	Title	Credits
OTM 351	Principles and Techniques of Quality Management	3
OTM 370	Sustainable Approaches to System Improvement	3
ACCT I S 310	Cost Management Systems	3
INFO SYS 322	Introduction to Databases	3
INFO SYS 365	Contemporary Topics	3
INFO SYS 371	Technology of Computer-Based Business Systems	3
INFO SYS 424	Systems Analysis and Design	3
I SY E 515	Engineering Management of Continuous Process Improvement	3
I SY E/PSYCH 549	Human Factors Engineering	3

### Freshman

Fall	Credits	Spring	Credits	Summer	Credits
ECON 101	4	MATH 211	5	MARKETNG 300	3
PSYCH 202	3	Communications A	3		
Science	3	Ethnic Studies	3		
Social Science	3	ECON 102	4		
GEN BUS 110	1				
		<b>14</b>	<b>15</b>	<b>3</b>	

### Sophomore

Fall	Credits	Spring	Credits
GEN BUS 306	3	GEN BUS 307	3
ACCT I S 100	3	ACCT I S 211	3
OTM 300	3	FINANCE/ ECON 300	3
M H R 300	3	GEN BUS 360	3
Elective	3	Elective	3
		<b>15</b>	<b>15</b>

### Junior

Fall	Credits	Spring	Credits
Communications B	3-4	OTM/ MARKETNG 421, 654, or MARKETNG 427	2-3
OTM 451	3	OTM 453	3
OTM 351 or 370	3	Ethics <sup>1</sup>	3-4
Humanities	3	Science	3
		<b>12-13</b>	<b>11-13</b>

### Senior

Fall	Credits	Spring	Credits
Business Breadth	3	Business Breadth	3
OTM Elective	3	OTM Elective	3
Literature	3	Elective	3
GEN BUS 301	3	Elective	3
		<b>12</b>	<b>12</b>

### Total Credits 109-112

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, ENVIR ST/PHILOS 441 Environmental Ethics

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Understand how to analyze and evaluate business processes combined with a capability for improving those processes.
- Understand how the effects of increased utilization and variability impact process capacity and flow times, and will be able to suggest approaches to improve system performance.
- Build analytical models to solve business problems.
- Articulate the commonalities and differences between service and manufacturing processes, and be able to manage and make improvements within either context.
- Apply principles of supply chain management in business contexts.

## ADVISING AND CAREERS

### ADVISING

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### ASSIGNED ACADEMIC AND CAREER COACHES

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For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

### CAREERS

All products and services—from cars to surgeries—are delivered by organized systems. It's the job of operations managers to make sure those activities occur when they are planned, in the right way, in the right quantity, and with the right quality. Operations management transforms inputs—such as labor, equipment, facilities, materials, energy, and information—into goods and services for customers. To make this all happen, the operations function is responsible for critical activities such as materials management, resource planning, purchasing, scheduling, and quality.

#### Common Career Paths

##### Production Management

- Production management involves the design, operations, and improvement of processes used to manufacture goods valued by

end users. Key tasks involve planning and control of materials and resources to enable these processes and make them error-free, fast, and low cost.

##### Service Operations Management

- Service operations management is concerned with the design, operations, and improvement of processes used to produce and deliver services to end customers. Key tasks involve planning control of resources (including training of service personnel) to enable these processes and make them error-free, fast, and low cost.

##### Technology Management

- Technology management allows an organization to manage its technological fundamentals to create a competitive advantage. The role of technology management is to understand the value technologies can have for an organization and for its customers—and to decide when to invest in technology development and/or when to withdraw from using it.

##### Supply Chain Management

- Supply chain management focuses on the movement of products and information along the value chain. The organizations that make up the supply chain are "linked" together through physical flows and information flows. Key tasks are focused on integrating marketing, sourcing, production, logistics, and information systems—not only within the organization, but also with business partners and customers.

##### Consulting

- Operations consulting is the process of assisting various types of businesses to assess the current status of internal procedures and strategies, and enhance the overall operation of the company. While operations consulting is often thought to focus on manufacturing plants or production facilities, the scope of operations consulting is actually broader than that. Even businesses that are service-based rather than product-based can benefit from operations consulting.

##### Project Management

- Project management is the application of processes, methods, knowledge, skills, tools, and experience to achieve project goals. Projects are separate to business-as-usual activities, requiring people to come together temporarily to focus on specific project objectives

Please visit our website (<https://business.wisc.edu/undergraduate/majors/operations-technology-management/>) for further details about potential career areas and responsibilities.

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### FACULTY AND STAFF IN OPERATIONS MANAGEMENT

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

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Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS: SUPPLY CHAIN MANAGEMENT, BBA

The field of supply chain management (SCM) is a critical area of competitive advantage for businesses around the world. SCM integrates business functions concerned with the movement of goods, services, and information along the value chain with the goal of creating value for the end customer. SCM is a cross-functional discipline involving many components of business including product development, marketing, demand/supply planning, sourcing, production, inventory, logistics, customer service, and the relationships between businesses and their channels of distribution. In today's complex business environment, there is a need to coordinate these supply chain functions not only within the firm, but with business partners and customers. As a result, SCM is a critical, strategic component of business, and students with SCM education and expertise are in high demand in the marketplace.

The supply chain management major is open to all undergraduate students enrolled in the School of Business and is administered by the Grainger Center for Supply Chain Management at the School of Business. Students will have the opportunity to interact with business leaders, participate in experiential learning and social activities, have access to a global trip/experience, and be eligible for scholarship opportunities from the Grainger Center.

It is important to appreciate SCM from both the theoretical and applied perspectives. Students declared in the supply chain management major will have the opportunity to participate in a large number of speaker events, site visits, and employer networking opportunities. Additionally, students will be eligible to participate in annual global trip opportunities led by the Grainger Center for Supply Chain Management. These trips allow for the exploration of SCM in new and different locations throughout the world.

For questions or additional information about the major in supply chain management, please visit the Grainger Center (<https://business.wisc.edu/centers/grainger/>) (3450 Grainger Hall).

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (<https://guide.wisc.edu/undergraduate/business/#enteringtheschooltext>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### SUPPLY CHAIN MANAGEMENT (SCM) MAJOR REQUIREMENTS

It is recommended that the undergraduate core courses OTM 300 Operations Management and MARKETNG 300 Marketing Management be taken as early as possible in preparation for this major.

Code	Title	Credits
MARKETNG/ OTM 421	Fundamentals of Supply Chain Management	3
MARKETNG/ OTM 422	Logistics Management	3
MARKETNG 425	Marketing Channel Strategy	3
MARKETNG/ OTM 427	Information Technology in Supply Chains	3
MARKETNG/ OTM 423	Procurement and Supply Management	3
Select ONE of the following four courses:		3
MARKETNG/ OTM 428	Supply Chain Capital Management	
MARKETNG 437	New Product Innovation	
OTM 451	Service Operations Management	
OTM 453	Operations Analytics	
<b>Total Credits</b>		<b>18</b>

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Assess the financial, marketing, and operational implications of fundamental supply chain strategies.
2. Compare how supply chain strategies are applied by examining decisions made in various real-world settings.
3. Create business value through the analysis of appropriate data using statistical and/or optimization techniques.
4. Synthesize supply chain concepts into a business strategy that is implemented through a cross-functional business simulation.
5. Effectively communicate ideas and recommendations to individuals in all functional areas of an organization.
6. Evaluate opportunities and risks necessary to develop effective sourcing strategies.
7. Assess costs and benefits in the formulation of appropriate go-to-market channels to reach desired customer groups.

## FOUR-YEAR PLAN

### Freshman

Fall	Credits	Spring	Credits	Summer	Credits
ECON 101	4	ECON 102	4	Elective	3
PSYCH 202	3	MATH 211	5		
GEN BUS 110	1	Communications A	3		
Science	3	Ethnic Studies	3		
Humanities	3				
		<b>14</b>	<b>15</b>	<b>3</b>	

### Sophomore

Fall	Credits	Spring	Credits
GEN BUS 306	3	GEN BUS 307	3
ACCT I S 100	3	ACCT I S 211	3
MARKETNG 300	3	MARKETNG/ OTM 421	3
OTM 300	3	Literature	3
Communications B	3	Social Science	3
		<b>15</b>	<b>15</b>

### Junior

Fall	Credits	Spring	Credits
FINANCE/ ECON 300	3	MARKETNG/ OTM 423	3
Ethics	4	Business Breadth	3
GEN BUS 360	3	Science	3
M H R 300	3	Elective	3
		Elective	3
		<b>13</b>	<b>15</b>

### Senior

Fall	Credits	Spring	Credits
GEN BUS 301	3	MARKETNG/ OTM 427	3
MARKETNG/ OTM 422	3	Supply Chain Elective	3
MARKETNG 425	3	Elective	3
Business Breadth	3	Elective	3
Elective	3	Elective	3
		<b>15</b>	<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### ADVISING

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## ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

## ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

## ADDITIONAL ADVISING INFORMATION FOR SUPPLY CHAIN STUDENTS

Students are offered a variety of applied learning events, site visits, a Supply Chain Management career fair, as well as a global experience trip. These activities enhance classroom learning and allow students to gain hands-on knowledge about the industry.

In addition to the advising offered through the School of Business, Supply Chain Management students are also offered degree-specific career and academic coaching from the Grainger Center's Assistant Director. It's encouraged that students connect with the Assistant Director every semester, as well as participate in the many events that the Center offers each year.

## CAREERS

Students enrolled in the supply chain management major have access to excellent internship opportunities and earn some of the highest salaries at the School of Business. The average full-time salary for members of the graduating class of 2022 with a supply chain management certificate (offered prior to implementation of the supply chain management major) was approximately \$66,000, while the average monthly internship salary was \$3,300.

Some of the companies that recruit students with a specialization in supply chain management include (but are not limited to):

- 3M
- Accenture
- Amazon
- BP Americas
- Cargill
- Deloitte
- Ford
- Georgia-Pacific
- KBX Logistics
- Kohler
- Kohl's Department Stores
- Macy's
- Milwaukee Tool
- Nestle
- Procter & Gamble
- Rockwell Automation
- Target Corporation
- Uline
- Wayfair
- W.W. Grainger

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

## FACULTY AND STAFF IN SUPPLY CHAIN MANAGEMENT

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026-2027.

## REAL ESTATE AND URBAN LAND ECONOMICS

The primary goal of the undergraduate real estate (<https://business.wisc.edu/undergraduate/majors/real-estate/>) major is to **comprehensively underwrite commercial real estate**, which is broad-based and follows the education thought leadership of James A. Graaskamp, who expressed that "Real estate should be taught as a process of dynamic interactions rather than functional and historical facts." Underwriting commercial real estate includes the analysis of all property types and the development of residential communities, while assessing and managing risk in all aspects of real estate relative to finance, development, valuation and market analysis. To effectively underwrite commercial real estate, students must be able to identify and

synthesize technical or basic skills, conceptual knowledge, critical thinking skills, and understand the real estate landscape to make informed and thoughtful property decisions. Graduates of the real estate major secure employment in a wide-range of positions and responsibility including real estate private equity investment, commercial real lending and valuation, and real estate development among many other areas including asset/property management and investment sales and brokerage.

## DEGREES/MAJORS/CERTIFICATES

- Business: Real Estate and Urban Land Economics, BBA (p. 1534)

## BUSINESS: REAL ESTATE AND URBAN LAND ECONOMICS, BBA

The primary goal of the undergraduate real estate (<https://business.wisc.edu/undergraduate/majors/real-estate/>) major is to **comprehensively underwrite commercial real estate**, which is broad-based and follows the education thought leadership of James A. Graaskamp, who expressed that "Real estate should be taught as a process of dynamic interactions rather than functional and historical facts." Underwriting commercial real estate includes the analysis of all property types and the development of residential communities, while assessing and managing risk in all aspects of real estate relative to finance, development, valuation, and market analysis. To effectively underwrite commercial real estate, students must be able to identify and synthesize technical or basic skills, conceptual knowledge, critical thinking skills, and understand the real estate landscape to make informed and thoughtful property decisions. Graduates of the real estate major secure employment in a wide-range of positions and responsibility including real estate private equity investment, commercial real lending and valuation, and real estate development among many other areas including asset/property management and investment sales and brokerage.

### RECOGNITION

Our real estate program is ranked 2nd in the US by *U.S. News & World Report* 2022.

### RELATED ORGANIZATIONS

Real Estate Club (<https://win.wisc.edu/organization/realestateclub/>)  
 Wisconsin Real Estate Alumni Association (<https://www.wreaa.org/>)  
 Women in Real Estate (<https://win.wisc.edu/organization/womeninrealestate/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

### REAL ESTATE MAJOR REQUIREMENTS

Code	Title	Credits
REAL EST/ A A E/ECON/ URB R PL 306	The Real Estate Process	3

REAL EST 410	Real Estate Finance	3
REAL EST 411	Real Estate Excel Modeling	1
REAL EST 412	Real Estate ARGUS Modeling	1
REAL EST 415	Valuation of Real Estate	3
REAL EST/ECON/ URB R PL 420	Urban and Regional Economics	3
REAL EST 425	Real Estate Law	3
REAL EST 530	Real Estate Investment Analysis	3
<b>Total Credits</b>		<b>20</b>

## ADDITIONAL COURSES

Undergraduate students are encouraged to take additional electives from among the following real estate courses. Electives are typically not offered every semester.

### REAL ESTATE ELECTIVES

Code	Title	Credits
REAL EST 365	Contemporary Topics <sup>1</sup>	3
REAL EST/A A E/ URB R PL 520	Community Economic Analysis	3
REAL EST 540	Public Real Estate Equity Investment	3
REAL EST 550	Private Real Estate Equity Investment I: Analysis and Structures	3
REAL EST 611	Residential Property Development	3
REAL EST 640	Real Estate Capital Markets	3
REAL EST 651	Green - Sustainable Development	3
REAL EST 661	Real Estate Investment Analysis and Presentation	3

1

The real estate department regularly offers innovative and cutting-edge electives under REAL EST 365 Contemporary Topics. Students should check the Course Guide every semester.

### RECOMMENDED NON-BUSINESS ELECTIVES

Electives may also be selected outside the business-economics core from among a number of courses elsewhere in the university, which will provide greater professional awareness and more specialized tools.

Code	Title	Credits
ENVIR ST/ SOIL SCI 575	Assessment of Environmental Impact	3
LAND ARC 250	Survey of Landscape Architecture Design	3
LAND ARC 561	Housing and Urban Design	4
LAND ARC 562	Open Space Planning and Design	4
SOIL SCI 301	General Soil Science	3
CIV ENGR 498	Construction Project Management	3
CIV ENGR 340	Structural Analysis I	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
URB R PL/GEOG 305	Introduction to the City	3-4

URB R PL/ LAND ARC 463	Evolution of American Planning	3
URB R PL 601	Site Planning	3

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Assemble and analyze market, linkage, and economic data to make prudent investment decisions.
2. Identify debt and equity capital sources that meet investor risk/return parameters for development, acquisitions, debt and value-add investment opportunities.
3. Responsibly and ethically consider investor, tenant, community, and municipal needs in the development process.
4. Create value in the built environment through developments that are built to scale, affordable, and sustainable.
5. Communicate the merits of real estate projects to investors, community stakeholders, and municipal/publicly elected officials.
6. Provide a network of professionals with cutting-edge perspectives and employment opportunities.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits
ECON 101	4	ACCT I S 100	3
GEN BUS 106	1	ECON 102	4
GEN BUS 110	1	PSYCH 202	3
MATH 211 or 221	5	Ethnic Studies	3-4

Communications A	3-4 Science	3
<b>14-15</b>		<b>16-17</b>

**Total Credits 30-32****Sophomore**

Fall	Credits	Spring	Credits
REAL EST/A A E/ECON/ URB R PL 306	3	REAL EST 410	3
ACCT I S 211	3	GEN BUS 307	3
FINANCE/ECON 300	3	GEN BUS 360	3
GEN BUS 306	3	M H R 300	3
Humanities, Social Sciences or Literature course	3	MARKETNG 300	3
<b>15</b>		<b>15</b>	

**Total Credits 30****Junior**

Fall	Credits	Spring	Credits
REAL EST 411	1	REAL EST/ECON/ URB R PL 420	3
REAL EST 412	1	GEN BUS 301	3
REAL EST 415	3	Business Breadth	3
OTM 300	3	Humanities, Social Sciences or Literature	3
Ethics <sup>1</sup>	3-4	Recommended Electives	4-6
Science	3		
<b>14-15</b>		<b>16-18</b>	

**Total Credits 30-33**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, PHILOS/ENVIR ST 441 Environmental Ethics.

**Senior**

Fall	Credits	Spring	Credits
REAL EST 425	3	REAL EST 530	3
Real Estate Elective	3	Real Estate Elective	3
Business Breadth	3	Recommended Electives	9
Humanities, Social Sciences or Literature	3		
Recommended Elective	3		
<b>15</b>		<b>15</b>	

**Total Credits 30****ADVISING AND CAREERS****ADVISING**

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a

wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

**ASSIGNED ACADEMIC AND CAREER COACHES**

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

**ACCESSING ADVISING**

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

**CAREERS**

Real estate as a career encompasses a wide range of activities—from development and construction to financing; from brokerage and leasing to property management; from appraisal and assessment to insurance and regulation; from research to urban planning, government affairs and more. Job responsibilities vary by function and can be office-based or in the field. Qualifications also vary from licensing and certification to advanced degrees.

Please visit our website (<https://business.wisc.edu/undergraduate/majors/real-estate/>) to learn more about careers in real estate.

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

**PEOPLE****FACULTY AND STAFF IN REAL ESTATE**

**For more information about the faculty and their research interests, please visit the** directory (<https://business.wisc.edu/directory/>).



## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## RISK AND INSURANCE

Actuarial science involves the construction and management of insurance and pension systems using knowledge from statistics/data science, mathematics, economics, finance, and computer science. The field of actuarial science centers on data analytics for risk assessment. The curriculum prepares students for careers with insurance companies, consulting firms, healthcare organizations, and government organizations. Courses offered cover the material of the preliminary examinations of the Casualty Actuarial Society and the Society of Actuaries as well as more advanced subjects such as regression analysis, health analytics, and machine learning. While it is not required for students to sit for actuarial exams, more than 90% of our students pass at least two professional exams before they graduate.

The major in risk management and insurance prepares students to identify, analyze, and manage risks that are inherent in the operation of profit and not-for-profit institutions. Besides professional careers in risk management, the major cultivates skills required for challenging opportunities in organizations that accept these risks—private and governmental insurers, as well as brokerage/agency and consulting organizations.

## DEGREES/MAJORS/CERTIFICATES

- Business: Actuarial Science, BBA (p. 1537)
- Business: Risk Management and Insurance, BBA (p. 1540)

## BUSINESS: ACTUARIAL SCIENCE, BBA

Actuarial science involves the construction and management of insurance and pension systems using knowledge from statistics/data science, mathematics, economics, finance, and computer science. The field of actuarial science centers on data analytics for risk assessment. The Actuarial Science (<https://business.wisc.edu/undergraduate/majors/actuarial-science/>) major curriculum prepares students for careers with insurance companies, consulting firms, healthcare organizations, and government organizations. Courses offered cover the material of the preliminary examinations of the Casualty Actuarial Society and the Society of Actuaries as well as more advanced subjects such as regression analysis, health analytics, and machine learning. Some of our actuarial courses allow students to earn credit for their professional exams by earning a minimum score in those courses (without taking the professional exam). While it is not required for students to sit for actuarial exams, more than 90% of our students will sit for at least two professional exams before they graduate.

## MISSION

The actuarial science program distinguishes itself through leadership, innovation, community, connections, networks, and recognition of the quality of the faculty, the courses, and the students.

## RELATED ORGANIZATIONS

Actuarial Club (<https://www.actuarialclubuw.org/>)

Co-Curricular Learning Board (<https://business.wisc.edu/faculty-research/risk-insurance/learning-board/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
Pre-Business		
Liberal Studies		
Business Prep		
Business Core		
Business Breadth		

## ACTUARIAL SCIENCE MAJOR REQUIREMENTS

The following courses are required for actuarial science majors. The Risk and Insurance Department also has course sequence information. Please be aware of stated prerequisites for major courses (including business core courses) that need to be completed before taking the course. Specific prerequisites can be found by clicking on the course number below.

Code	Title	Credits
MATH/STAT 431	Introduction to the Theory of Probability <sup>1</sup>	3
or STAT/ MATH 309	Introduction to Probability and Mathematical Statistics I	
or STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT/MATH 310	Introduction to Probability and Mathematical Statistics II <sup>1</sup>	3
or STAT 312	Introduction to Theory and Methods of Mathematical Statistics II	
ACT SCI 300	Actuarial Science Methods I	1
ACT SCI 301	Actuarial Science Methods II	1
ACT SCI 303	Theory of Interest	3
ACT SCI 650	Actuarial Mathematics I	3
ACT SCI 652	Loss Models I	3
ACT SCI 651	Actuarial Mathematics II	3
or ACT SCI 653	Loss Models II	
ACT SCI 654	Regression and Time Series for Actuaries <sup>1</sup>	3
or ACT SCI 655	Health Analytics	
or GEN BUS 656	Machine Learning for Business Analytics	
<b>Total Credits</b>		<b>23</b>

1

The probability, statistics and regression/analytics requirements above for the actuarial science major also fulfill the business analytics requirement found in the BBA Business Preparatory Requirements.

## RECOMMENDED ELECTIVES

Code	Title	Credits
MATH 234	Calculus--Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
R M I 300	Principles of Risk Management	3
FINANCE/ ECON 320	Investment Theory	3

COMP SCI 220	Data Science Programming I <sup>1</sup>	4
STAT 303 & STAT 304 & STAT 305	R for Statistics I and R for Statistics II and R for Statistics III	3

1

Recommended to take either COMP SCI 220 or the STAT 303, STAT 304, STAT 305 sequence.

Students are encouraged to take MATH 234 Calculus--Functions of Several Variables before taking probability (MATH/STAT 431 Introduction to the Theory of Probability, STAT/MATH 309 Introduction to Probability and Mathematical Statistics I, or STAT 311 Introduction to Theory and Methods of Mathematical Statistics I), courses in risk management and insurance; finance; and computer science.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize and explain the concept of risk, and apply the knowledge to the development of insurance products that are used to manage risk for the consumer as well as the risk of those products on the insurance organization.
2. Describe the actuarial profession, including the major professional organizations, the professional obligations of being an actuary, and the requirements to obtain and maintain a professional actuarial designation.
3. Demonstrate skills in critical thinking, quantitative analysis, and communication, as well as to develop an appreciation for actuarial theory, research, and the link to practical application.
4. Demonstrate the soft skills of being a professional.
5. Communicate their experiences and inspire others across the WSOB learning community.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult

with their academic advisor to develop an individualized plan that meets their specific needs.

**Freshman**

Fall	Credits	Spring	Credits	Summer	Credits	
MATH 221	5	MATH 222	4	ACCT I S 100	3	3
ECON 101	4	ECON 102	4			
GEN BUS 110	1	PSYCH 202	3			
Communications A	3	Ethnic Studies	3			
		<b>13</b>	<b>14</b>			<b>3</b>

**Sophomore**

Fall	Credits	Spring	Credits	Summer	Credits	
MATH 234	4	STAT/ MATH 309, 311, or MATH 431	3	M H R 300 or MARKETNG 300	3	3
ACT SCI 301	1	R M I 300	3			
ACT SCI 303	3	FINANCE/ ECON 300	3			
OTM 300	3	ACCT I S 211	3			
GEN BUS 360	3	M H R 300 or MARKETNG 300	3			
		<b>14</b>	<b>15</b>			<b>3</b>

**Junior**

Fall	Credits	Spring	Credits	Summer	Credits	
ACT SCI 300	1	ACT SCI 653	3			
ACT SCI 652	3	ACT SCI 654, 655, or GEN BUS 656	3			
STAT/ MATH 310 or 312	3	Humanities, Social Science, or Literature	3			
Humanities, Social Science, or Literature	3	Humanities, Social Science, or Literature	3			
Elective	3	Communications B	3-4			
		<b>13</b>	<b>15-16</b>			

**Senior**

Fall	Credits	Spring	Credits	Summer	Credits	
ACT SCI 650	3	ACT SCI 651	3			
ACT SCI 654, 655, or GEN BUS 656	3	FINANCE 330	3			
Science	3	GEN BUS 301	3			
Ethics <sup>1</sup>	4	Science	3			
FINANCE/ ECON 320	3	Elective	3			
		<b>16</b>	<b>15</b>			

**Total Credits 121-122**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, ENVIR ST/PHILOS 441 Environmental Ethics

**ADVISING AND CAREERS**

**ADVISING**

Advising is an integral part of any student’s educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

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For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

Actuarial program faculty offer advising nights every fall semester to help students plan their course sequencing and professional exams.

**CAREERS**

Actuaries are problem solvers with expertise in understanding and managing financial risk. They use historical information and models to help predict the future. Actuaries may specialize in life and health (risk of illness, disability or death), pensions (develop and analyze retirement programs) or property and casualty (personal property risks and risks associated with businesses).

Some of our actuarial students utilize the analytical and technical skills they learn in the actuarial program and apply those skills to pursue data analytics or data science as a career. They may do this in the risk and insurance industry or in any industry that has the need to analyze, project and make decisions from large amounts of data.

Find out more about common industries and essential skills needed to be an actuary on the Undergraduate Actuarial Science website (<https://business.wisc.edu/undergraduate/majors/actuarial-science/>).

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

## FACULTY AND STAFF IN RISK AND INSURANCE

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## CERTIFICATION/LICENSURE

### CERTIFICATION/LICENSURE

There are several exams and credentials from the Casualty Actuarial Society (<http://www.casact.org/>) and the Society of Actuaries (<https://www.soa.org>) that we prepare students to obtain during their undergraduate career. Students are encouraged to pass at least two actuarial exams before graduation in order to obtain an internship and/or job.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states: The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

If you are good at math and are interested in pursuing a career as an actuary, apply for our UW-Madison Actuarial Program Scholarship (<https://www.actuarialclubuw.org/future-members/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## BUSINESS: RISK MANAGEMENT AND INSURANCE, BBA

The major in risk management and insurance (<https://business.wisc.edu/undergraduate/majors/risk-management-insurance/>) prepares students to identify, analyze, and manage risks that are inherent in the operation of profit and not-for-profit institutions. Besides professional careers in risk management, the major cultivates skills required for challenging opportunities in organizations that accept these risks—private and governmental insurers, as well as brokerage/agency and consulting organizations.

The program of study may be structured to aid students seeking professional designations of Chartered Property and Casualty Underwriter (CPCU) and Associate in Risk Management (ARM).

### RECOGNITION

Our risk management and insurance undergraduate program is ranked 3rd in the US by *U.S. News & World Report*, 2022.

### RELATED ORGANIZATIONS

Risk Management and Insurance Society (<http://www.rmisuw.org/>)  
Co-Curricular Learning Board (<https://business.wisc.edu/faculty-research/risk-insurance/learning-board/>)

## HOW TO GET IN

Students wishing to pursue this major must be admitted to the School of Business. Once admitted, students are able to pursue any business major they choose. To find out more about the school's admissions process for undergraduate students, please see *Entering the School* (p. 1454).

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core

of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) degree program is based on a broad educational foundation combined with courses in business and economics. This curriculum is designed for those students who wish to prepare for careers in business. Students completing any School of Business major (p. 1465) are required to satisfy a common set of Pre-Business Requirements, Liberal Studies Requirements, Business Preparatory Requirement, Business Core Requirement, Business Breadth Requirement, and Credits for BBA Degree.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: (p. 1465)		
	Pre-Business	
	Liberal Studies	
	Business Prep	
	Business Core	
	Business Breadth	

## RISK MANAGEMENT & INSURANCE (R M I) MAJOR REQUIREMENTS

The risk management and insurance major consists of 12 required credits. R M I 300 should be completed prior to any other R M I coursework, as it is a prerequisite for all other courses.

Code	Title	Credits
R M I 300	Principles of Risk Management	3
<b>Complete 2 of the following courses <sup>1</sup></b>		<b>6</b>
R M I 640	Management of Insurance Enterprise	
R M I 645	Commercial Insurance	
R M I 655	Risk Financing Techniques	

R M I 660	Risk Analytics and Behavioral Science	
<b>Complete 1 other 600-level R M I course, 600-level ACT SCI course, FINANCE 325, or FINANCE 330 <sup>2</sup></b>		<b>3</b>
<b>Total Credits</b>		<b>12</b>

1

Students may choose to take a third course from this list to count as their additional 3-credit, 600-level R M I course.

2

None of the elective courses may be used to satisfy the business breadth requirement.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Integrate a holistic risk management process (framework) across all dimensions of an organization, implementing risk management decisions that add value.
2. Use appropriate statistical techniques and data analysis to support risk management decisions.
3. Apply fundamental insurance principles that support economic development through insurance markets.
4. Identify decision-making challenges, and implement strategies to address those challenges, in environments involving risk and uncertainty.
5. Demonstrate strong critical thinking skills as observed through their ability to debate various positions, ask skeptical questions, and probe underlying assumptions.
6. Demonstrate leadership qualities in moving the profession forward.

## FOUR-YEAR PLAN

This is a **sample** four-year plan for students directly admitted into the School of Business from high school. We encourage all students to consult

with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits	Summer	Credits
MATH 211 or 221	5	ECON 101	4	ACCT I S 100	3
GEN BUS 110	1	PSYCH 202	3		
Elective	3	Ethnic Studies	3		
Communications A	3-4	Science	3		
		<b>12-13</b>	<b>13</b>		<b>3</b>

### Sophomore

Fall	Credits	Spring	Credits
ECON 102	4	GEN BUS 307	3
GEN BUS 306	3	ACCT I S 211	3
R M I 300 or FINANCE 300	3	R M I 300 or FINANCE 300	3
M H R 300, OTM 300, or MARKETNG 300	3	M H R 300, OTM 300, or MARKETNG 300	3
GEN BUS 360	3	Non-bus/econ elective	3
		<b>16</b>	<b>15</b>

### Junior

Fall	Credits	Spring	Credits
M H R 300, OTM 300, or MARKETNG 300	3	Communications B	3-4
Humanities, Social Science, or Literature	3	R M I 660	3
Humanities, Social Science, or Literature	3	R M I 645 (or elective)	3
R M I 640	3	Elective	3
R M I 655 (or RMI Elective)	3		
		<b>15</b>	<b>12-13</b>

### Senior

Fall	Credits	Spring	Credits
Business Breadth	3	R M I 645 (or elective)	3
Science	3	Business Breadth	3
Ethics <sup>1</sup>	4	GEN BUS 301	3
R M I 655 (or RMI elective)	3	Humanities, Social Science, or Literature	3
		<b>13</b>	<b>12</b>

**Total Credits 111-113**

1

Students must choose one of the following courses: PHILOS 241 Introductory Ethics, PHILOS 243 Ethics in Business, PHILOS 341 Contemporary Moral Issues, ENVIR ST/PHILOS 441 Environmental Ethics

## ADVISING AND CAREERS

### ADVISING

Advising is an integral part of any student's educational journey in the School of Business Undergraduate Program. Starting at Student Orientation, Advising, and Registration (SOAR), we encourage all students to connect with academic advisors. Business academic advisors have a wealth of knowledge about courses on campus, as well as policies and procedures.

Business career coaches help students with career exploration, internships, resumes, job search, interviewing and more. We encourage students to connect with their career coach once they arrive on campus.

Business academic advisors and career coaches are passionate about student success. Students experiencing academic difficulty or personal struggles are encouraged to talk to their advisor about how their individual situation may affect their academic performance.

### ASSIGNED ACADEMIC AND CAREER COACHES

Admitted business students will have one assigned academic advisor. Career coaches are assigned by academic major to be able to provide industry-specific career guidance. If a student has more than one major, they may have more than one assigned career coach. Students can find their assigned advisor and coach by logging into the Starfish portal through MyUW.

For students not yet admitted to the School of Business, there is a team of pre-business advisors available.

### ACCESSING ADVISING

Drop-in advising and scheduled appointments are available for admitted business students. Pre-business students may also schedule an appointment with a pre-business academic advisor or utilize drop-in academic advising.

For more information on accessing academic advising, please see our academic advising page (<https://business.wisc.edu/undergraduate/academic-advising/>).

For more information on accessing career coaching, please see our career coaching page (<https://business.wisc.edu/undergraduate/careers/>).

### CAREERS

Risk professionals identify, develop, and analyze solutions to manage risk (financial, credit, operational, etc.) at both the organizational and consumer level. Effective risk management encompasses all divisions of an organization, allowing the organization to grow safely and to be more resilient. Insurance is a key solution for managing risk and is deployed by risk professionals working as brokers, underwriters, claims adjusters, product developers, and a host of other potential insurance careers.

To learn more about careers in risk management and insurance, please visit the BBA RMI website (<https://business.wisc.edu/undergraduate/majors/risk-management-insurance/>).

More information on Career Pathways (<https://business.wisc.edu/undergraduate/careers/pathways/>).

## PEOPLE

### FACULTY AND STAFF IN RISK AND INSURANCE

For more information about the faculty and their research interests, please visit the directory (<https://business.wisc.edu/directory/>).

## ACCREDITATION

### ACCREDITATION

AACSB International—The Association to Advance Collegiate Schools of Business (<http://www.aacsb.edu/>)

Accreditation status: Accredited. Next accreditation review: 2026–2027.

## SCHOOL OF EDUCATION

The School of Education at UW–Madison is consistently ranked as one of the finest schools of education in the United States, and among the best in the world. The school embraces fields of study that define the human experience: **education** to challenge minds, **health** to improve lives, and the **arts** to enhance creative spirits. World-class research is conducted to drive conversation forward. The school prepares students in a variety of disciplines and for a range of professional roles, including artist, teacher, and therapist.

Approximately 1,500 undergraduates are enrolled each year in the School of Education. While many students are pursuing teacher certification, a significant number are completing programs in the performing and visual arts, human movement, and human services.

The School of Education offers a broad array of undergraduate programs that reflect the wide range of disciplines housed in the school. Although undergraduate majors are not offered in all departments, all ten departments do offer courses to undergraduate students. The school's departments include: Art (p. 1575), Counseling Psychology (<http://counselingpsych.education.wisc.edu/>), Curriculum and Instruction (p. 1612), Dance (p. 1678), Educational Leadership and Policy Analysis (<http://elpa.education.wisc.edu/>), Educational Policy Studies (p. 1699), Educational Psychology (p. 1719), (<https://edpsych.education.wisc.edu/>) Kinesiology (p. 1722), Rehabilitation Psychology and Special Education (p. 1747), and Theatre and Drama (p. 1777).

School of Education faculty seek committed, creative, and reflective students who are sensitive to differing perspectives. For this reason, most of the school's programs use criteria beyond grade point average in the admissions process. Students are encouraged to challenge themselves and their initial career choices through volunteer experiences, service learning courses, internships or paid work experiences, and study abroad.

Students find that the School of Education is their academic and administrative home—a source of advising, guidance, support, and community. Small class sizes in many pre-professional and professional courses allow students to develop a strong sense of community and to get ample individual attention from professors, instructors, and teaching assistants. Teaching staff are extremely willing to get to know their students and work with them to meet their goals. School of Education courses also provide students the chance to get to know their classmates well. The School of Education works to offer a caring, secure, and supportive environment that encourages taking risks, expanding personal boundaries, and developing into a professional.

## DEGREES/MAJORS/CERTIFICATES

All students pursuing their undergraduate degree in the School of Education **must** fulfill the following requirements:

- University-wide General Education Requirements (p. 32)
- School of Education Liberal Studies Requirements (p. 1554)
- Major/Degree Program Requirements (see below)
- Art Education, B.S. (p. 1575)
- Art Studio, Certificate (p. 1583)
- Art, B.S. (p. 1585)
- Art, BFA (p. 1595)
- Arts and Teaching, Certificate (p. 1613)
- Athletic Healthcare, Certificate (p. 1722)
- Communication Sciences and Disorders, BSE (p. 1617)
- Dance Studies, Certificate (p. 1679)
- Dance, B.S. (p. 1680)
- Dance, BFA (p. 1686)
- Dance, Certificate (p. 1692)
- Disability Rights and Services, Certificate (p. 1747)
- Education and Educational Services, Certificate (p. 1720)
- Education Studies, B.S. (p. 1700)
- Educational Policy Studies, Certificate (p. 1707)
- Elementary Education and Special Education, BSE (p. 1748)
- Elementary Education, BSE (p. 1625)
- Game Design, Certificate (p. 1649)
- Global Cultures, Languages, and Education, Certificate (p. 1708)
- Graphic Design, Certificate (p. 1611)
- Health Promotion and Health Equity, B.S. (p. 1724)
- Individual Major, BSE (p. 1695)
- International Development and Education, Certificate (p. 1717)
- Introductory Studies in Dance/Movement Therapy, Certificate (p. 1694)
- Kinesiology, B.S. (p. 1730)
- Physical Education, B.S. (p. 1738)
- Pilates, Certificate (p. 1694)
- Preparing to Teach Abroad, Certificate (p. 1664)
- Promoting Activity for Diverse Abilities, Certificate (p. 1746)
- Rehabilitation Psychology, B.S. (p. 1757)
- Social Justice and Education, Certificate (p. 1718)
- Special Education, BSE (p. 1762)

- Theatre and Drama, B.S. (p. 1777)
- Theatre, Certificate (p. 1785)

**Note:** Students at UW–Madison become certified to teach secondary **English, Mathematics, Science, and Social Studies** through graduate-level coursework, not as undergraduates. A Master's degree offered by the Department of Curriculum and Instruction certifies students to teach in one or more of these four subject areas in grades 4–12, and also English as a Second Language in grades K–12. Information about this Master's degree program is available at UW–Madison Teach (<https://teach.education.wisc.edu/>) and on the Curriculum and Instruction (<http://ci.education.wisc.edu/>) website.

A new graduate program in **World Language Education** was recently developed to provide certification in specific world languages. Licensing is at the Kindergarten – Grade 12 level. Information about this Master's degree option is also available at UW–Madison Teach (<https://teach.education.wisc.edu/>) and on the Curriculum and Instruction (<http://ci.education.wisc.edu/>) website.

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW–Madison's vision for the total student experience, the Wisconsin Experience, (<https://wisconsinexperience.wisc.edu/about/>) combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW–Madison encourages students to mindfully engage in four core concepts throughout their time on campus.

- Empathy & Humility (<https://wisconsinexperience.wisc.edu/empathy-and-humility/>) - Badgers bring heart—empathy and humility—to everything that we do. It's the very lens of our worldview. We develop and demonstrate a cultural understanding of ourselves and others; we engage locally, nationally, and globally in a respectful and civil manner; and we appreciate and celebrate one another's abilities, views, and accomplishments.
- Relentless Curiosity (<https://wisconsinexperience.wisc.edu/relentless-curiosity/>) - Badgers show relentless curiosity at every step of life's journey. We question things that no one has ever thought to question. We actively learn with expert instructors, scholars, and peers; we engage in creative inquiry, scholarship, and research; we develop resilience; and we foster courage in life and learning.
- Intellectual Confidence (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>) - Badgers fearlessly sift and winnow until we achieve intellectual confidence. At our core, we're learners and teachers. We develop competence, depth, and expertise in a field of study; we integrate ideas and synthesize knowledge across multiple contexts; and we exercise critical thinking and effective communication.
- Purposeful Action (<https://wisconsinexperience.wisc.edu/purposeful-action/>) - Badgers strive to find greater meaning every day through purposeful action. We work for the common good—for something that's bigger than ourselves. We apply

knowledge and skills to solve problems; we engage in public service, partner with others, and contribute to the community; and we lead for positive change.

## THE WISCONSIN EXPERIENCE IN THE SCHOOL OF EDUCATION

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Some of the current activities are listed below; additional activities are listed under each major.

### SERVICE LEARNING AND COMMUNITY SERVICE

- Students pursuing health-related studies, including the Health Promotion and Health Equity major (<https://guide.wisc.edu/undergraduate/education/kinesiology/health-promo-health-equity-bs/>), have an opportunity to become involved in the Fit Families (<https://education.wisc.edu/news/capital-times-spotlights-uw-madisons-luis-columna-and-fit-families-program/>) program, developed by Dr. Luis Columna. *Fit Families* is a physical activity program that brings together children with disabilities, their parents, college students and in-service professionals in related fields such as adapted physical education, special education, orientation & mobility, psychology, physical education, and exercise science.
- RP & SE 300 Individuals with Disabilities includes a field-based experience where students engage in work that directly or indirectly supports a person with a disability. Hundreds of student each year are placed in a wide variety of placement sites ([https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz\\_K50oCM/edit?usp=sharing](https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz_K50oCM/edit?usp=sharing)) in the Madison area. This experience allows students to gain first-hand knowledge of the contributions of, and services provided to, individuals with disabilities within the community.
- The art department offers ART 338, a service learning course. Students work with a community partner in an art-related capacity and learn about community-based practices in the field.
- Students in the Physical Education Teacher Education (PETE) (<https://guide.wisc.edu/undergraduate/education/kinesiology/physical-education-bs/>) program partner with the Boys and Girls Club of Dane County to help kids and their families stay active during the holiday break from school. Working together, they develop games that can be done at home using common household items. A flyer describing the games was included in over 500 Thanksgiving baskets distributed by the Boys and Girls Club last year, and associated videos were made available on their website. Who wouldn't want to play "Reverse Pig Trash Ball?"

### STUDY ABROAD

The School of Education recently developed a number of summer study abroad opportunities. Led by UW–Madison instructors, students studied:

- Diversity and Community in the Galapagos Islands (Ecuador)
- Team Building in Costa Rica
- Theatre in London
- Movement as Medicine in Portugal



Additional courses are in development!

## STUDENT ORGANIZATIONS

- Aspiring Educators of Wisconsin (<https://win.wisc.edu/organization/aspiringeducators/>) is a pre-professional association for those pursuing careers as educators. It provides opportunities to meet other education majors and current teachers, to explore cutting edge issues in education, and interact with the community.
- The Kinesiology Club (<https://kinesiology.education.wisc.edu/home/student-orgs/kines-club/>) is a student organization committed to community service through engaging in opportunities to promote physical activity throughout the campus and community. Members are also committed to exploring career opportunities within the field of kinesiology.
- Fresh Hot Press (printmaking), AIGA (graphic design), Mad Gaffers (glassblowing), and Art for Change (activism) are just a few of the available options for art students.
- Diverse Leaders in Education (DLE) (<https://win.wisc.edu/organization/dle/>) aims to provide a loving and supportive space for BIPOC students interested in the field of education. The group provides a space that allows future educators of color to create networks with one another throughout subject areas and fields of study. Participants work within the community and provide support for other educators while diversifying the field of education.

## RESEARCH AND DEPTH OF STUDY

- Kinesiology students are currently serving as Research Assistants in the labs of Professors Cook, Ausderau, Andreae, Schrage, Barnes, and Mason, and also in the Promotion of Health Equity & Adapted Physical Activity (PHEAPA) lab.
- The Center for Research on Early Childhood Education (<https://crece.wceruw.org/>) recently created an undergraduate research fellowship program. The program's goal is to diversify the research communities that address early childhood education.
- More than a dozen rehabilitation psychology students are currently working with professors and graduate students on research in rehabilitation psychology. Several are leading their own research with faculty support, and many students presented at the spring Undergraduate Research Symposium.
- Physical education staff and students recently partnered with experts in the academic technology department to create a smartphone app, "EnCourage." The app provides hundreds of team-building activities for use by teachers, coaches, and anyone trying to develop teamwork with groups. Its development was one of the School of Education Innovation Projects, "Social and Emotional Learning in Physical Education."
- The dance department provides financial awards (<https://dance.wisc.edu/admissions-and-aid/scholarships-and-awards/>) to encourage students to continue their studies, both nationally and internationally, over the summer. For example, full-tuition scholarships are given to dance majors to study in the summer study program at the Dance Education Lab in New York. One award of full tuition and accommodation is given to a freshman dance major to study at the six-week Perry Mansfield pre-professional summer study program. Students have these, and other opportunities, to make professional connections in the field and in the global dance community.

- The theatre and drama department offers an Honors option (<https://guide.wisc.edu/undergraduate/education/theatre-drama/theatre-drama-bs/#requirements-text>) in the major and a named option in Acting (<https://guide.wisc.edu/undergraduate/education/theatre-drama/theatre-drama-bs/theatre-drama-acting-bs/>).
- Undergraduate awards (<https://eps.education.wisc.edu/admissions-and-aid/financial-aid/>) in writing, research and community-based scholarship are sponsored by the educational policy studies department. One such award is the Eric Flanagan Community-Engaged Scholarship Award.

## VOLUNTEER OPPORTUNITIES

- One of the UW's most sought-after volunteer experiences, the kinesiology department's Adapted Fitness (<https://kinesiology.education.wisc.edu/adapted-fitness-personal-training/>) program, located in the heart of campus, offers fitness training and physical activities to community-based clients with a wide variety of permanent and temporary disabilities from heritable disorders, chronic and neurological diseases, and accidental traumas. Students who pursue the Physical Activity for Diverse Abilities certificate (<https://guide.wisc.edu/undergraduate/education/kinesiology/promoting-activity-diverse-abilities-certificate/>) receive priority placement for volunteer positions.

## INTERNSHIPS AND FIELD PLACEMENTS

- Students earning an undergraduate degree in Rehabilitation Psychology (<https://guide.wisc.edu/undergraduate/education/rehabilitation-psychology-special-education/rehabilitation-psychology-bse/>) complete at least six credits of internship, selected from a large and diverse number of sites in the community. The goals of the experience include exploring career interests and gaining experience in community agencies serving and advocating for individuals with disabilities.
- Undergraduates in teacher education programs have multiple field experiences in K-12 schools, culminating in a full-time student teaching experience following the semester of the cooperating school.
- Art internships provide real-world experience and can often be completed for university credit through enrollment in ART 393 Internships in Art. Students have interned and conducted research at many businesses, institutions, and on-campus locations, including the Madison Children's Museum, Bayview Center for Arts and Education, ArtWrite Collective, Chazen Museum of Art, Museum of Modern Art, Metropolitan Museum of Art, Monroe Street Arts Center, and the Madison Museum of Contemporary Art.

## POLICIES AND REGULATIONS

## ACADEMIC CONCERNS AND STATUS

### ACADEMIC ACTIONS AND EXCEPTIONS

Academic actions and exceptions are used to record a student's progress through the university and to document various

administrative and academic situations. Actions can be grouped into two broad categories:

- those that permit exceptions to program requirements and school/university policies *and*
- those that affect a student's standing in the university—e.g., probation or transferring from one program to another.

As the undergraduate dean's office, the School of Education Student Services office is responsible for reviewing, approving, documenting, and sometimes initiating academic actions and exceptions. To be posted to a student's record, exceptions must go through several steps. Exceptions may be initiated either by program faculty/staff or by Student Services staff, who often consult about a specific exception. Once an exception has been approved, it is processed either as an official "Dean's action" or as a DARS exception. Students can find a record of dean's actions on their printed unofficial transcript (also called the student record) or on their DARS report. A DARS exception will be reflected in the individual student's DARS report.

Exceptions to faculty approved program requirements generally include course substitutions and rarely involve course or program requirement waivers. Exceptions to campus or School policies include permission for adding or dropping a course beyond the deadlines, waiving senior or major residency requirements, extending the deadline for meeting a deficiency or finishing an Incomplete, and permitting students to repeat a course for credit. A request for an exception requires careful consideration from all parties involved. Students should be prepared to explain the reasoning behind a request and offer supporting documentation.

Substantial consultation time with faculty, staff, and/or deans may be required, so students should not expect to receive an immediate answer to a request during the initial appointment.

## **ACADEMIC STANDING: DEAN'S LIST, ACADEMIC PROBATION, AND MAY NOT CONTINUE.**

To remain in good academic standing in the School of Education, students must earn both a semester grade point average (GPA) and a cumulative grade point average of at least 2.5. Academic standing is not calculated after the completion of summer coursework. While the 2.5 grade point average may not be sufficient to permit students to be considered for admission to their program of choice, it is the minimum required to remain in the School of Education. This may be substantially higher than minimum grade point average requirements in other schools/colleges on campus.

### **Dean's List**

Students have at least a 2.5 cumulative GPA and 3.5 or higher for the semester. Students must have received no incompletes in graded courses, no unreported grades, or end-of-semester academic actions for the semester. Credit/no credit and pass/fail courses are not considered in meeting the requirements for the Dean's List.

### **Probation**

A student's grade point average for a particular semester falls below 2.5, while the cumulative campus GPA remains at or above 2.5. Students must earn a minimum 2.5 grade point average on the next semester's coursework to be removed from probation status.

### **Strict Probation**

Strict Probation occurs when either (1) a student's cumulative GPA falls below a 2.5 OR (2) a student already on probation earns less than a 2.5 grade point average for the subsequent semester. To be in good academic standing, students on strict probation must earn both a 2.5 GPA on the next semester's coursework and also have a cumulative GPA of 2.5 by the end of the next semester. Students on Strict Probation status have an enrollment hold placed on their record for the subsequent semester. These students are not permitted to enroll until they have met with an advisor in the School of Education Student Services office.

### **Continued Strict Probation**

A student already on strict probation obtained a 2.5 GPA or above on the next semester's coursework, but the cumulative GPA is still below 2.5. Once both grade point averages are at or above 2.5, the student will be in good academic standing. Students on Continued Strict Probation status have an enrollment hold placed on their record for the subsequent semester. These students are not permitted to enroll until they have met with a Student Services advisor.

### **May Not Continue in the School of Education**

Students on strict probation or continued strict probation who earn less than a 2.5 GPA on the next semester's work will receive notice that they may not continue in the School of Education. Students on May Not Continue status who do not seek or are not granted permission to continue may be withdrawn from the university and dropped from courses ("disenrolled"). Students are expected to contact the School of Education Student Services office immediately to discuss options, including transfer to another school or college on campus, transfer to another university, or withdrawal from UW-Madison.

## **CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY**

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW-Madison campus coursework. A student whose GPA falls below 2.75 will be placed on probation for the following semester. If the GPA remains below a 2.75 at the end of the probationary semester, the student will receive a discontinuation letter indicating that they must transfer out of the Department of Kinesiology. A hold will be placed on the student's registration for the second semester following the probationary semester, until the transfer is complete. Students in this situation must transfer to another School of Education program, another UW-Madison school/college, to another institution altogether, or must withdraw from the university.

If a student wishes to appeal being discontinued in the department, it must be done in writing to the Chair of the Undergraduate Studies Committee within 30 days of the date of the notification letter. The Undergraduate Studies Committee may request that the student appear in person at an Undergraduate Studies Committee meeting to present the case.

If a negative decision is reached by the Undergraduate Studies Committee, a student may choose to appeal in writing to the Department of Kinesiology Student Affairs Committee within 30 days of the date of the notification.

If a negative decision is reached by the Department's Student Affairs Committee, a student may choose to appeal in writing to the Chair of the Department of Kinesiology within 30 days of the date of the notification.

If a negative decision is reached by the Chair of the Department of Kinesiology, a student may choose to follow the School of Education Grievance Policy.

In the event of a positive decision at any level, the student will be allowed to continue for one semester in order to raise the GPA to 2.75 or higher. A 2.5 cumulative GPA is required to graduate from the Department of Kinesiology.

supervisor, who is usually the course professor. The course professor will attempt to resolve the concern informally.

- b. If the concern involves a non-TA instructor, staff member, professor, academic department, or School of Education office or unit, the student should contact the chair of the department or the director of the office or unit, or their designee. The chair or director, or their designee, will attempt to resolve the concern informally. If the concern is about the department chair or office/unit director, the student should consult the School of Education Senior Associate Dean for guidance.
3. If the concern remains unresolved after step 2, the student may submit a formal grievance to the chair or director in writing within 30 business days<sup>1</sup> of the alleged unfair treatment. To the fullest extent possible, a formal written grievance shall contain a clear and concise statement of the issue(s) involved and the relief sought.
4. On receipt of a written grievance, the chair or director will notify the person at whom the grievance is directed with a copy of the written grievance. The person at whom the complaint is directed may submit a written response, which would be shared with the student.
5. On receipt of a written grievance, the chair or director will refer the matter to a department, office, or unit committee comprised of at least two members. The committee may be an existing committee or one constituted for this purpose. The committee, or delegates from the committee, may meet with the parties involved and/or review any material either party shares with the committee.
6. The committee will provide a written description of the facts of the grievance and communicate recommendations to the department chair or office/unit head regarding how the grievance should be handled.
7. The chair or director will offer to meet with the student who made the grievance and also will provide a written decision to the student, including a description of any related action taken by the committee, within 30 business days of receiving the formal grievance.

#### 1

For the purpose of this policy, business days refers to those days when the University Offices are open and shall not include weekends, university holidays, spring recess, or the period from the last day of exams of fall semester instruction to the first day of spring semester instruction. All time limits may be modified by mutual consent of the parties involved.

If the grievance concerns an undergraduate course grade, the decision of the department chair after reviewing the committee's recommendations is final.

Other types of grievances may be appealed using the following procedures:

1. Both the student who filed the grievance or the person at whom the grievance was directed, if unsatisfied with the decision of the department, office or unit, have five (5) business days from receipt of the decision to contact the Senior Associate Dean, indicating the intention to appeal.
2. A written appeal must be filed with the Senior Associate Dean within 10 business days of the time the appealing party was notified of the initial resolution of the complaint.
3. On receipt of a written appeal, the Senior Associate Dean will convene a sub-committee of the School of Education's Academic Planning Council. This subcommittee may ask for additional information from the parties involved and/or may hold a meeting at which both parties

## GRIEVANCE POLICY IN THE SCHOOL OF EDUCATION

# SCHOOL OF EDUCATION GRIEVANCE POLICY AND PROCEDURES

The following School of Education Student Grievance Policy and associated procedures are designed for use in response to individual student grievances regarding faculty or staff in the School of Education.

Any individual student who feels they have been treated unfairly by a School of Education faculty or staff member has the right to file a grievance about the treatment and receive a timely response addressing their concerns. Any student, undergraduate or graduate, may use these grievance procedures, except employees whose complaints are covered under other campus policies. The grievance may concern classroom treatment, mentoring or advising, program admission or continuation, course grades (study abroad grade complaints are handled through International Academic Programs (<https://studyabroad.wisc.edu/>)), or issues not covered by other campus policies or grievance procedures.

For grievances regarding discrimination based on protected bases (<https://compliance.wisc.edu/eo-complaint/>) (i.e., race, color, national origin, sex, disability, age, etc.), contact the Office of Compliance (<https://compliance.wisc.edu/eo-complaint/>).

For grievances or concerns regarding sexual harassment or sexual violence (including sexual assault, dating/domestic violence, stalking and sexual exploitation), contact the Sexual Misconduct Resource and Response Program (<https://compliance.wisc.edu/titleix/>) within the Office of Compliance.

For grievances that involve the behavior of a student, contact the Office of Student Conduct and Community Standards in the Dean of Students Office at <https://conduct.students.wisc.edu/>.

For grievances about, or directed at, faculty or staff in a School of Education department, unit, or program, students should follow these steps:

1. Students are strongly encouraged to first talk with the person against whom the concern is directed. Many issues can be settled informally at this level. If students are unable to resolve concerns directly or without additional support, step 2 or 3 should be pursued.
2. If unresolved after taking or considering step 1:
  - a. If the concern is directed against a teaching assistant (TA), and the student is not satisfied, the student should contact the TA's

will be asked to speak separately (i.e., not in the room at the same time).

4. The subcommittee will then make a written recommendation to the Dean of the School of Education, or their designee, who will render a decision. The dean or designee's written decision shall be made within 30 business days from the date when the written appeal was filed with the Senior Associate Dean. For undergraduate students, the dean or designee's decision is final.

Further appealing a School of Education decision – *graduate students only*

Graduate students have the option to appeal decisions by the School of Education dean or designee by using the process detailed on the Graduate School's website (<https://grad.wisc.edu/documents/grievances-and-appeals/>).

Questions about these procedures can be directed to the School of Education Dean's Office, 377 Education Building, 1000 Bascom Mall, 608-262-1763.

## RESOURCES

- Office of Compliance (<https://compliance.wisc.edu/>) (for discrimination based on protected classes, including misconduct) 179A Bascom Hall, 608-262-2378
- Office of Student Conduct and Community Standards (<https://conduct.students.wisc.edu/>) (for conflicts between students, or academic integrity violations) 70 Bascom Hall, 608-263-5700
- Bias or Hate Reporting (<https://doso.students.wisc.edu/bias-or-hate-reporting/>) (for students who experience or observe bias or hate incidents) 70 Bascom Hall, 608-263-5700
- Graduate School (<https://grad.wisc.edu/>) (for graduate students who need informal advice at any level of review; for official appeals of program/departmental or school/college grievance decisions, see Graduate Assistant Policies and Procedures (<https://hr.wisc.edu/policies/gapp/>)) 217 Bascom Hall, 608-262-2433
- Ombuds Office for Faculty and Staff (<http://www.ombuds.wisc.edu/>) (for UW-Madison employees, including graduate students) 523-524 Lowell Center, 608-265-9992
- Employee Assistance (<http://www.eao.wisc.edu/>) (for conflicts involving graduate assistants and other employees) 256 Lowell Hall, 608-263-2987
- Dean of Students Office (<https://doso.students.wisc.edu/>) (for any students needing advice or support) 70 Bascom Hall, 608-263-5700
- Office of Human Resources (<https://kb.wisc.edu/ohr/policies/search.php?cat=4506>) for policies and procedures to address workplace conflict) 21 N Park Street Suite 5101, 608-265-2257
- School of Education, Office of Student Services (<https://education.wisc.edu/about/student-services/>) (for students, particularly undergraduates, in the School of Education) 139 Education Building, 608-262-1651
- School of Education, Office of Equity, Diversity, and Inclusion (<https://education.wisc.edu/about/diversity-inclusion/>) (OEDI) 145 Education Building, 608-262-8427

## PART-TIME ENROLLMENT STATUS

Students who choose part-time enrollment status or who anticipate falling below full-time enrollment status due to dropping a course should consult with an advisor in the School of Education Student Services office. Part-time enrollment may have important implications for any number of issues, including health insurance

coverage or financial aid. It is especially important that athletes and international students consult with Student Services advisors and other advisors if considering part-time enrollment. Students who drop below 12 credits need not leave university housing.

## RE-ENTRY TO CAMPUS AFTER AN ABSENCE

Students wishing to reenter UW-Madison after an absence of a semester or more must file a reentry application form. This form is available from the UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>). If an applicant is not in good academic standing, the reentry application will be referred to the associate dean.

Students admitted to the professional part of a program may leave UW-Madison for a maximum of two consecutive semesters (excluding summer sessions) and be eligible to reenter directly into the program. Students in this situation are not guaranteed immediate placement in a practicum or student teaching placement upon reentry, and graduation may be delayed because of prior commitments to continuing students. Students who leave the program for more than two consecutive semesters (excluding summer sessions) may be considered for readmission only on an individual basis. Lack of space in a program may preclude readmission directly into a program for any future semester. Given the individual circumstances, a student may be required to reapply to the program altogether.

The general policy above may be modified by any particular program so that the conditions of reentry match the structure of the professional program. Some programs require that students obtain prior approval to interrupt the program sequence. All students intending to be absent should leave with a firm understanding of the conditions guiding their reentry into their professional program. Consult with the appropriate faculty advisor and with the School of Education Student Services office.

## RESIDENCY (MAJOR & SENIOR) REQUIREMENTS

### Major Residency

Students must complete at UW-Madison at least 15 credits in upper-level courses in the major. Some programs, e.g., Art, require more credits to meet major residency requirements. Upper-level courses are generally defined as those numbered 300 and above, but this varies by program area. Retroactive credits and credits granted by examination do not count toward the residency requirement.

### Senior Residency

Seniors in the School of Education must complete the last 30 credits in residence. Special permission to take a portion of senior work either at another institution or by correspondence (via UW-Extension) must be obtained in advance from the School of Education Student Services office. Coursework taken as part of a UW-Madison sponsored study abroad program does not count against senior residency. Students should discuss senior residency issues with their Student Services advisor. Retroactive credits and credits granted by examination do not count toward the residency requirement.

## EXCESS CUMULATIVE CREDITS AND SATISFACTORY PROGRESS

### Excess Cumulative Credits

Wisconsin resident undergraduates who have accumulated more than 165 completed credits will be assessed a 100% tuition surcharge on credits over 165, as required by the University of Wisconsin-Madison. This policy was effective beginning Spring 2021. See Excess Cumulative Credits (<https://kb.wisc.edu/apir/110093/>) on Academic Planning and Institutional Research's KnowledgeBase page for more information about this policy and the criteria used in counting cumulative, completed credits. Note: Students who have already been awarded a Bachelor's degree from any accredited institution are exempt from the tuition surcharge. Special students are also exempt.

### Satisfactory Progress: Second Degree Candidates and Education Special (non-degree-seeking) Students

The School of Education is enriched by admitting students with a previous degree to our programs. We welcome these students and encourage them to apply to the School. At the same time, admission as a second-degree or Education Special (designated EDS or EDCS) student is a privilege granted by the School of Education. Second-degree and Education Special students are expected to make the same timely progress toward program completion as are initial-degree students.

To ensure satisfactory progress, second-degree and Education Special students who are identified to have met any one of the criteria below will be required to confer with her/his program coordinator and the undergraduate academic dean for purposes of developing a formal plan for program completion:

- Student has earned over 200 total credits.
- Student enrolled for two consecutive semesters without completing requirements for the professional program to which the student was initially admitted.
- Student withdrew from classes for two consecutive semesters.
- Student failed to enroll in a required course when it was available, particularly those that are intermittently offered.
- Student engages in other course selection patterns that result in his/her failing to make progress toward completion of initial program.

Students who do not meet the terms of the plan for program completion may be restricted to enrollment in specific courses or departments, prevented from enrolling entirely, or withdrawn from classes by the academic undergraduate dean after consultation with program faculty. Students may appeal the terms of the plan or any of the dean's actions above under the provisions of the School of Education Grievance Policy.

## WITHDRAWING FROM UW-MADISON

Formal withdrawal procedures must be observed by individuals who wish to leave the university before completing the semester in progress. Students who leave the university without formally withdrawing may receive failing grades in all courses.

## COURSES AND COURSE ENROLLMENT

### ATTENDANCE POLICIES

Faculty and instructors may require students to attend scheduled meetings of a class and/or to participate in other course-related activities, including distance activities. Students are responsible for materials presented in such meetings or activities. Because courses are designed and conducted in diverse ways, faculty and instructors are expected to inform students in writing at the beginning of each course if there are specific expectations for attendance/participation, including whether any component of the grade is based on such attendance/participation.

### AUDITING A COURSE

A student may audit a course only if the instructor consents and if no laboratory or performance skills are required. (The second restriction usually prevents students from auditing Dance or Art courses.) Auditors do not participate in classroom discussions or take examinations, but are expected to attend with reasonable regularity and do some assigned work.

Audited courses carry no degree credits, are not graded, do not count in determining full-time/part-time load for enrollment certification in an academic term, and do not meet degree requirements for School of Education students. Students interested in auditing a course should confer with their Student Services advisor. The deadline to change a course from credit to audit is the end of the fourth week of classes; no exceptions to this deadline are permitted.

## CONCURRENT ENROLLMENT AT TWO INSTITUTIONS

School of Education students may occasionally choose to take courses at another institution—e.g., Madison College or Independent Learning through UW-Extension—while being a fully enrolled student on the UW-Madison campus. Full-time or part-time student status is usually determined by the credits taken at UW-Madison only; thus, students who take only nine credits on campus and three credits at another institution may not be considered full-time students.

## CREDIT OVERLOAD PERMISSION

Students may carry a maximum of 18 credits per semester without the special permission of an academic dean. School of Education undergraduates wishing to take over 18 credits should complete the Credit Overload Request Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_a5bKn4mlGaeCnpb/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_a5bKn4mlGaeCnpb/)). Students must be in excellent academic standing to be considered for a credit overload, usually a 3.0 cumulative GPA on the UW-Madison campus.

**Please note that additional fees are assessed for credit overloads on a per credit basis.**

During summer sessions, students may, as a rule, carry one credit per week of instruction unless special permission is given. The maximum credit load for Education students for the entire summer session is 12. Session-specific limits follow the rule of 1 credit per week of instruction, except 9 credits are allowed in the Eight-Week General Session. Students must obtain permission from an academic dean to carry an overload in any of the summer sessions; start this

process by completing the Credit Overload Request Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_a5bKn4mGaeCnpb/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_a5bKn4mGaeCnpb/)).

## DIRECTED/INDEPENDENT STUDY

Directed Study, also called Independent Study, offers the student an opportunity to work with a School of Education faculty member on an individual topic of interest. Most School of Education departments make directed study courses available to students on the basis of the student's preparation and motivation and a faculty member's willingness to accept the student in such an endeavor. Directed Study courses are generally numbered 199, 299, 399, and 699.

This study option is intended primarily for advanced students who have a depth of knowledge in a field, the self-discipline necessary for independent work, and strong motivation to pursue a special project. Some program areas limit the number of Directed Study credits that can be applied to major or minor requirements.

Directed Study is taken as a supplement to, but not as a replacement for, available course offerings. In this way, it may be used to expand areas of particularly strong interest. Extra responsibility is required from the faculty member involved, and no member of the faculty is obligated to accept a proposal for a directed study project. Students should have a well-defined outline of the topic to be studied before discussing the project with a faculty member.

Both the student and instructor must follow UW–Madison's Policy on Directed/Independent Study for Undergraduates (<https://kb.wisc.edu/page.php?id=36263>). Important components of this document include, but are not limited to:

- The student's responsibility to develop a written study plan, in collaboration and agreement with the instructor, consistent with the responsibilities of the instructor. The study plan will include expectations for learning and student work, the time and place for regular meetings, the number of credits to be earned, and any other issues related to the learning experience.
- Guidelines for assigning the appropriate number of credits to the Directed Study.
- Responsibilities of the Directed Study instructor.
- The approval process for enrolling in a Directed Study after the course add deadline (usually the end of the second week of class in fall and spring semesters).

## INDEPENDENT LEARNING COURSE ENROLLMENT

Students occasionally elect to take an Independent Learning (<https://il.wisconsin.edu/course-catalog/>) course through the University of Wisconsin–Extension. Many of the courses offered through Independent Learning (IL) can count toward specific degree requirements and students have an entire year to complete the coursework. Individuals interested in enrolling in an Independent Learning course should note the following important issues:

### Course Equivalencies

Independent Learning courses are not automatically transferable as equivalent UW–Madison campus courses—even when the Independent Learning course carries the same number and title. Use Transferology (<https://www.transferology.com/state/wisconsin.htm>) to ensure that the Independent Learning course is equivalent to the

campus required course. Faculty and dean's offices may have some discretion in permitting courses to count for requirements even when they are not coded as exactly equivalent; students should see their Student Services advisor.

### Concurrent Enrollment

UW–Extension is an entirely separate institution from UW–Madison. Thus, UW–Madison students must have permission from their academic dean to be enrolled concurrently in another higher education institution. Permission for concurrent enrollment is granted routinely for School of Education students through the School of Education Student Services office. Students should go to the registrar's office website for the permission form ([https://registrar.wisc.edu/wp-content/uploads/sites/36/2017/06/independent\\_learning\\_form.pdf](https://registrar.wisc.edu/wp-content/uploads/sites/36/2017/06/independent_learning_form.pdf)). The completed form indicates permission for concurrent enrollment and, in some circumstances, provides for a waiver of the tuition for the Independent Learning course (see additional information below). Students should take this form to the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall, and meet with an advisor. Send it to Independent Learning after it has been approved at the School of Education Student Services office.

### Tuition Waiver

The tuition for an Independent Learning course may be waived with the academic dean's permission, although the student is still responsible for other course enrollment fees. Students are eligible for a tuition waiver if they register for an Independent Learning course during the semester they are concurrently enrolled at UW–Madison. In some cases, students may be allowed to register for Independent Learning classes once they have enrolled in courses for the subsequent semester, linking their Independent Learning registration with the credits for the succeeding semester. Students interested in receiving a tuition waiver must be enrolled full time (at least 12 credits) at UW–Madison, and have no more than 18 credits after adding the Independent Learning course. Students should see their Student Services advisor for additional information on these policies. As indicated above, download and complete the form ([https://registrar.wisc.edu/documents/independent\\_learning\\_form.pdf](https://registrar.wisc.edu/documents/independent_learning_form.pdf)) and submit to the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall. This stamped form must then be sent to Independent Learning, with a copy remaining at Student Services.

### Posting Independent Learning Courses to the UW–Madison Transcript

Independent Learning courses are posted to the campus transcript after staff at the Office of Admissions and Recruitment (<http://admissions.wisc.edu>) receive the original transcript. A official transcript for an Independent Learning course must be submitted to this office.

### Timing for Course Completion and Degree Posting

Independent Learning courses require a substantial time commitment. Students should not plan to begin an Independent Learning course only a few weeks before it must be completed! Perhaps even more important, students completing an Independent Learning course to meet degree requirements during their last semester on campus should be aware that the Independent Learning course must be completed prior to the University's official graduation date for that semester. The completion date listed on the UW–Extension transcript must be on or before the UW–Madison degree completion date or the student's degree

will be awarded after the subsequent semester. For example, if a student's UW-Extension transcript indicates a course completion date of May 25, but the UW-Madison degree completion date is May 23, the student's degree will be posted for the subsequent August graduation date, not for the May graduation day. This could create serious problems for teacher education students hoping to secure a position. For this reason, students completing final degree requirements via Independent Learning should consult carefully with Student Services and Independent Learning staff regarding the timing of their course completion and degree posting.

## LATE COURSE ADDS OR DROPS

Course enrollment regulations must be followed when adding and dropping courses. Students are responsible for knowing and complying with the published deadlines; see the registrar's website (<http://www.registrar.wisc.edu>) for deadlines. Students are expected to check their academic records routinely to minimize the need for late drops based on enrollment errors.

### Late Course Add

Students must obtain instructor, departmental, and dean's approval to add a course after the course add deadline. See the registrar's website (<http://www.registrar.wisc.edu>) for instructions.

### Late Course Drop

After the drop deadline, courses may be dropped only with the permission of the School of Education Student Services office. Such permission is not granted routinely, but only in unusual circumstances. Students seeking a late drop will be required to complete a formal request form and may be asked to supply a written justification, medical or other documentation, and/or proof of having consulted with the course instructor. Requests for backdated drops due to ignorance of campus drop deadlines or to remove a "DR" from the student's record will not be honored. Students seeking a late drop must schedule a meeting with a Student Services advisor.

The student will meet with the advisor to discuss the drop request. The advisor will collect information about the circumstances around the request. If appropriate, the advisor will warn about the drop's possible consequences for financial aid, insurance coverage, student status (for international students), etc. The decision around the late drop may or may not be made during this meeting. Advisors may confer with instructors as needed to verify students' reports and obtain additional information. Advisors may also require students to contact the instructor and may also consult with one another and with the associate dean about specific cases. Students will be informed via email or telephone about the disposition of their request.

## REPEATING COURSES

Most courses on the UW-Madison campus may be taken only once for purposes of credit. Some courses may be repeated a limited number of times for credit. Other courses may be repeated an unlimited number of times for credit. When courses are taken more than once, all grades and their associated grade points are included in the cumulative campus grade point average.

Some School of Education professional programs may permit students to retake courses for admission eligibility purposes only. Students should consult Student Services staff with questions regarding repeated courses.

## DEGREES, "DOUBLE MAJORS," AND GRADUATION

### ADDITIONAL MAJOR OR "DOUBLE MAJOR"

School of Education students may be permitted to complete an additional major with their School of Education degree program. Students must be admitted to the professional part of their degree program to be eligible to add an additional major; pre-professional students cannot add another major.

Education students wishing to complete an additional major in the College of Letters & Science must complete these steps:

1. Contact the department that houses the major of interest. Meet with the undergraduate major advisor there, if appropriate. Complete the Major Declaration form and obtain departmental approval (usually a signature or stamp).
2. Take the form to the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall, and ask for a dean's action to permit the additional major. Student Services staff will take the action and send the form to the registrar's office. Note: Students in the School of Education should not take the form to the L&S Student Academic Affairs office—even if this is the advice of departmental staff. Requests for an additional major will be rejected by the registrar's office for lack of the appropriate dean's approval.

Students will be granted a degree at the end of the fall, spring, or summer semesters in which all School of Education degree requirements are complete. Graduation will **not** be postponed if students have an unfinished additional major or certificate program that is not required for the degree.

Exceptions to the requirements of an additional major or certificate program must be approved by the department and school/college dean's office in which the major or certificate program is located.

## CREDITS-TO-DEGREE

School of Education programs require a minimum of 120 credits in all programs for graduation, although programs may require more. To earn 120 credits in four years (eight semesters), students must average 15 credits per semester. The number of credits carried each semester may depend upon a student's preparation, motivation, course selection, employment, and extracurricular activities.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study.

School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## DUAL DEGREES

Students may be permitted to complete two degrees simultaneously. For example, students may complete two degree programs in the School of Education or may choose a degree program in the College of Agricultural and Life Sciences along with their School of Education degree. Not all schools/colleges permit dual degrees –e.g., this is not permitted by the College of Letters & Science or by the College of Engineering. Students should confer with an academic dean regarding the ability and feasibility of completing two degrees programs simultaneously. Students wishing to earn two undergraduate degrees must follow these academic policies:

- If the two degrees to be earned are within the School of Education, at least 30 additional credits and all course and grade point average requirements for the second degree must be completed for the second degree. When the first degree requires 120 credits, a minimum of 150 credits for most majors will be required. The two degree programs must differ sufficiently to permit the total credits to be accumulated. Courses may count toward the fulfillment of both degree programs. Permission to complete two degrees simultaneously requires the academic dean's approval. This approval, and the formal academic action permitting the dual degree work, should be sought as early as possible to ensure that it is feasible to complete both degrees.
- If the two degrees to be earned are from two different schools/colleges (one degree in Education and one degree in another school or college on this campus), the following academic policies shall be followed:
- Permission to complete two degrees simultaneously requires academic dean's approval from both schools/colleges. Students should see their current dean's office for the required paperwork.
- Admission into the other school/college shall be based on the admission criteria for that particular school/college and, when necessary, particular program.
- The two degree programs must differ sufficiently so that the combined total requirements for the two degrees are at least 150 credits.
- The student's program must be reviewed and approved in both colleges before the start of a student's senior year in residence.
- The degree from each college will be awarded simultaneously.

- Exceptions to degree requirements must be taken by staff from the school/college linked to the particular degree.

## GRADES AND GRADING

### Grading System

See Enrollment and Records (p. 35) for detailed information on the campus grading system, including the list of possible grades and their impact on a student's grade point average.

### Credit/No Credit Courses

Courses designated as being offered on a Credit/No Credit basis are indicated on the transcript as either CR, meaning the student earned the credits for which the course was offered, or N, meaning that the student did not earn any credit even though enrolled for the course. Students may not take such courses on any other basis.

### "F" Grade Policies

If the course is repeated, the original F will remain on the transcript and will be included in computing the GPA. If a grade of F, N (no credit), or U (unsatisfactory) is received in student teaching or in courses within required practica, the course may be repeated only if the faculty adviser, the supervisor of the practicum or student teaching, and the appropriate associate dean gives approval. A third attempt to register in a course under these conditions is not allowed.

### Incompletes

A grade of "Incomplete" may be reported for a student who has carried a subject with passing grades until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond the student's control, has been unable to take or complete the final examination, or to complete some limited amount of term work. An Incomplete is not given to a student who stays away from a final examination except as indicated above. In the absence of substantiated cause, the grade shall be F. Even with such proof, if the student's work has convinced the instructor that s/he cannot pass the course, the grade shall be F.

Any Incomplete taken by School of Education students must be completed by the end of the student's next semester of residence (specifically, by the last day of classes), excluding Summer Sessions. If the work is not completed by this deadline, the Incomplete will lapse into a Failure unless the time limit has been extended in writing by the dean's office. (Note that this differs for College of Letters & Science students: Incompletes must be completed by the end of the fourth week of classes of the student's next semester of residence at UW-Madison, excluding Summer Sessions.)

### Pass/Fail Grading

All undergraduate students are eligible to take a course on a pass/fail basis if they request the option prior to the deadline and are in good academic standing at the time of the request. Good academic standing for this purpose means that students have a minimum 2.5 cumulative grade-point average based on UW-Madison coursework. Undergraduates may carry one course on a pass/fail basis per term. (Each year's summer sessions collectively count as a single term.)

Pass/fail can be chosen only for elective courses. Required courses cannot be taken on a pass/fail basis. The School



of Education may reject pass/fail requests for non-elective work, but it is the student's responsibility to be sure that the requested course is an elective. Courses taken on a pass/fail basis will not count for non-elective requirements—even if they would normally count toward such requirements.

Students may submit pass/fail requests via their Student Center link from the time that they register until midnight on the Friday at the end of the fourth week of fall and spring semesters. For modular and summer session courses, pass/fail requests must be submitted by midnight Friday of the week in which the session is one-fourth completed. Students may not cancel or add the pass/fail option after the deadline for submitting Pass/Fail Option Forms.

Instructors are not notified when a student elects the pass/fail option. (Students can see whether a course is pass/fail in their Student Center.) When a course is taken on a pass/fail basis, the instructor reports a letter grade, which is converted by the registrar to an S (satisfactory) or U (unsatisfactory). The grade of S shall be recorded by the registrar in place of instructors' grades of A, AB, B, BC, or C. The grade of U shall be recorded by the registrar in place of instructors' grades of D or F. Neither the S nor the U is used in computing the grade-point average. A student must earn at least a C to receive credit for the course.

Please note that courses completed on a pass/fail basis do not apply toward Liberal Studies, major, minor, or professional education requirements for graduation. Students planning graduate study should not take courses on a pass/fail basis if these are pre-professional requirements for admission to graduate and/or professional programs. Individuals who are undecided about a major should avoid taking a course on a pass/fail basis that might later become a required course needed to complete a major. Students may wish to consult with an advisor before taking a course on a pass/fail basis.

### Six-Weeks (Midterm) Grades

Only first-year students receive midterm, or "six-weeks" grades. Midterm grades for first-year students are prepared at the end of the sixth week of classes and are made available to students in their Student Center in My UW on Monday of the eighth week. An email is sent out to all students with six-week grades informing them of their availability in the Student Center.

The midterm grade report provides students with important feedback about course enrollment and performance before the course drop deadline. Students should check their six-week grade report to make sure all courses are listed and grades indicated. An "NW" means that "No Work" has been turned in; students who have been attending the course should contact the instructor immediately. In the case of a course registration problem, students should see their Student Services advisor immediately.

### Grades from Transfer Courses

Grades from transfer courses are not posted to the UW-Madison transcript; however, the School of Education uses all attempted transferable coursework to determine program admission eligibility and selection grade point average. Students should be aware that grades earned at another

institution will be included in admission calculations. (Courses for which an "F" is earned do not transfer to UW-Madison.) Student should see their School of Education advisor if they have additional questions about this policy.

## PROGRAM ADMISSIONS

### LAST 60 CREDIT RULE

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

1. all transferable college level coursework attempted, *and*
2. the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.)

The use of the last 60 credits does not supersede other eligibility requirements. For example, when a minimum GPA on prerequisite courses is required, or a minimum major GPA is required to be eligible for admission, all required courses will be used in calculating this GPA. This will include courses taken prior to the last 60 credits. A cumulative GPA, however, will still be calculated based on the last 60 college credits attempted.

Currently, retention and graduation GPAs are based on all credits attempted at UW-Madison as an undergraduate student. If each semester's GPA after admission to the program meets the required GPA for retention, the student will be allowed to continue and complete the program.

*This policy does not apply to certification programs in Music Education, as the degree is granted from the College of Letters and Science, not the School of Education.*

Contact the School of Education Student Services office for additional information regarding the interpretation of this policy.

### STUDENTS WITH A PREVIOUS DEGREE

A prospective student who already holds an undergraduate degree is admitted to the School of Education as either an Education Special student or a Second Degree student, depending on the academic area of interest and the individual's previous coursework. The term "Special Student" indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; the student does not receive a second degree for this "certification only" coursework. Second undergraduate degree students are seeking a second degree from the School of Education in an area that is different from the major coursework of the first degree. This degree may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission.

### Special Students

Applicants must file an undergraduate application with the Office of Admissions and Recruitment (<http://admissions.wisc.edu>). Education Special students not yet admitted to a professional program are given an EDS classification, are not eligible for financial aid, and

enroll last with the other special students on campus. Candidates seeking Special student status in open enrollment programs must obtain written permission for admission from the relevant program coordinator and must submit a professional program application to the School of Education Student Services office. Candidates seeking admission to a limited enrollment program must meet all admission eligibility requirements for the program and must compete with other eligible candidates for program admission. Applicants admitted to a certification professional program become Education Certification Special students (EDCS classification) to distinguish them from Special students not so admitted. Students with an EDCS classification may be eligible for financial aid. Continuing EDCS students may register with undergraduates having junior status.

## Second Degree Candidates

Students who wish to earn a second baccalaureate degree in the School of Education must file an undergraduate application with the Office of Admissions and Recruitment (<http://admissions.wisc.edu>) and must file a professional program application with the School of Education Student Services office. Second degree students not yet admitted to a professional program are given a pre-professional classification. Second degree candidates must:

- be seeking a new major that is substantially different from their previous degree work;
- complete at least 15 upper-level credits in the new major;
- complete at least 30 credits beyond their previous coursework.

The determination of whether a student should be admitted as a second degree candidate or Education Special student is made by the faculty advisor in consultation with Student Services staff after analyzing the student's remaining requirements. The faculty advisor will determine the specific remaining requirements for students admitted to a program. In addition to completing the requirements specific to the program(s) of interest, returning students must also complete any relevant campus-wide requirements, complete the requirements specific to individual program areas such as the Environmental Education requirement, and satisfy any high school deficiencies identified at the time of admission to UW–Madison. Students are strongly encouraged to discuss their academic plans with their faculty advisor and must make satisfactory progress toward program completion - see Satisfactory Progress/Excess credits for details.

Students seeing a second degree in Kinesiology–Exercise & Movement Science must complete PSYCH 202 Introduction to Psychology as part of the professional program if an equivalent course was not completed during the initial baccalaureate degree.

Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program.

Beginning at Student Orientation and Registration (SOAR), School of Education academic advisors help each student determine how they can meet General Education Requirements while pursuing a specific degree program, or through exploration of a variety of interests. The General Education and Liberal Studies requirements provide an opportunity to do some academic exploration. If a student cannot complete a General Education requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

Students with a previous undergraduate degree are not required to complete the Liberal Studies coursework.

All students are required to complete a minimum of 40 credits of Liberal Studies coursework. Most Liberal Studies courses are offered by academic departments in the College of Letters & Science. Each course is assigned a number of descriptors that provide information about its content. For example, a breadth designation indicates what kind of course it is—a Science course, a Literature course, etc. Level designations describe how advanced the content of a course is in relation to other courses in the department—Elementary, Intermediate, Advanced, or Intermediate/Advanced level. Course listings in Course Search and Enroll (<https://registrar.wisc.edu/course-search-enroll/>) provide breadth and level designations. Click on the course number to obtain this information. Students can also search for courses meeting specific breadth or level designations using Course Search and Enroll (<https://registrar.wisc.edu/course-search-enroll/>).

## UW–Madison breadth designations

Biological Science  
Humanities  
Literature  
Natural Science  
Physical Science  
Social Science  
Social or Natural Science  
Humanities or Natural Science  
Biological or Social Science  
Humanities or Social Science

## HUMANITIES

All students must complete a minimum of 9 credits, to include:

### Literature (minimum of 2 credits)

Any course designated as *Literature*.

### Fine Arts (minimum of 2 credits)

The courses listed below are approved for the Fine Arts requirement. Additional courses can be considered; students may consult with an advisor in the School of Education Student Services Office.

Code	Title	Credits
<b>African Languages and Literature</b>		
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3

## REQUIREMENTS

# SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

## HOW STUDENTS MEET REQUIREMENTS

The School of Education's Liberal Studies Requirements automatically satisfy most of the University's General Education Requirements, including Ethnic Studies, Humanities/Literature, Social Studies, and Science.

AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
<b>Afro-American Studies</b>		
AFROAMER 154	Hip-Hop and Contemporary American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER/ AFRICAN 220	HipHop, Youth Culture, and Politics in Senegal	3
AFROAMER 225	Introduction to African American Dramatic Literature	3
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER/ DANCE/MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
AFROAMER 338	The Black Arts Movement	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3
AFROAMER/ AFRICAN 413	Contemporary African and Caribbean Drama	3-4
AFROAMER 456	Soul Music and the African American Freedom Movement	3
<b>American Indian Studies</b>		
AMER IND 325	American Indians in Film	3
<b>Art</b>		
Any course from the Department of Art ( <a href="http://guide.wisc.edu/courses/art/">http://guide.wisc.edu/courses/art/</a> )		
<b>Art History</b>		
Any course from the Department of Art History ( <a href="http://guide.wisc.edu/courses/art_hist/">http://guide.wisc.edu/courses/art_hist/</a> )		
<b>Communication Arts</b>		
COM ARTS 350	Introduction to Film	3
COM ARTS 357	History of the Animated Film	3
<b>Dance</b>		
Any course from the Department of Dance ( <a href="http://guide.wisc.edu/courses/dance/">http://guide.wisc.edu/courses/dance/</a> )		
<b>Design Studies</b>		
DS 120	Design: Fundamentals I	3
<b>English</b>		
ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3

ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 411	Creative Writing: Special Topics Workshop	3
<b>Environmental Studies</b>		
ENVIR ST/HIST SCI/ HISTORY 125	Green Screen: Environmental Perspectives through Film	3
<b>Folklore</b>		
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3
FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2
<b>Gender and Women's Studies</b>		
GEN&WS/ AFROAMER 267	Artistic/Cultural Images of Black Women	3
<b>German</b>		
GERMAN 267	Yiddish Song and the Jewish Experience	3-4
<b>Integrated Liberal Studies</b>		
ILS 203	Western Culture: Literature and the Arts I	3
ILS 204	Western Culture: Literature and the Arts II	3-4
<b>Literature in Translation</b>		
LITTRANS 207	Slavic Science Fiction through Literature and Film	3
LITTRANS 231	Manga	3
LITTRANS 232	Anime	3
LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
LITTRANS 272	French Pop Culture	3
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
LITTRANS/ FOLKLORE 327	Vampires	3
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	3-4
<b>Music</b>		
Any course from the Department of Music ( <a href="http://guide.wisc.edu/courses/music/">http://guide.wisc.edu/courses/music/</a> )		
<b>Music Performance</b>		
Any course from the Department of Music Performance ( <a href="http://guide.wisc.edu/courses/mus_perf/">http://guide.wisc.edu/courses/mus_perf/</a> )		
<b>Theatre</b>		
Any course from the Department of Theatre and Drama ( <a href="http://guide.wisc.edu/courses/theatre/">http://guide.wisc.edu/courses/theatre/</a> )		
<b>Humanities Elective(s)</b>		
May include courses designated as <i>Humanities, Literature, Humanities or Natural Science, Humanities or Social Science</i> , elementary and intermediate level foreign language, or additional fine arts. May also count COM ARTS 105 Public Speaking, COM ARTS 181 Elements of Speech-Honors Course, and any English ( <a href="http://guide.wisc.edu/courses/engl/">http://guide.wisc.edu/courses/engl/</a> ) department intermediate or advanced level creative writing or composition		

course toward this requirement (ESL classes and elementary level composition courses are excluded).

## SOCIAL STUDIES (SOCIAL SCIENCE)

All students must complete a minimum of 9 credits. Select from courses with a breadth designation of *Social Science*, *Social or Natural Science*, *Biological or Social Science*, or as *Humanities or Social Science*.

Teacher education and kinesiology students have unique requirements in this category; see below:

### Teacher Education requirement

Teacher education students must complete a Local, State, and National Government requirement by enrolling in one of the following courses as part of the 9 credits:

- POLI SCI 104 Introduction to American Politics and Government or
- POLI SCI 205 Introduction to State Government

### Kinesiology

Kinesiology students must complete PSYCH 202 Introduction to Psychology as part of the 9 credits.

## SCIENCE

All students must complete a minimum of 9 credits, including one course designated as a Biological Science course and one designated as a Physical Science course. All students must complete one science course with a laboratory. The lab course can also count toward the Biological or Physical Science requirement if it has the requisite breadth designation.

### Biological Science

Any course with a breadth designation of *Biological Science*, or as *Biological or Social Science*.

### Physical Science

Any course with a breadth designation of *Physical Science*.

### Science Elective(s)

Other courses with a breadth designation of *Biological Science*, *Physical Science*, *Natural Science*, *Social or Natural Science*, *Humanities or Natural Science*, or as *Biological or Social Science*.

### Laboratory requirement

Most sciences with lab sections are identified as such in Course Search and Enroll (<https://registrar.wisc.edu/course-search-enroll/>). An AP Biology score of 4 or 5 will also fulfill the Laboratory requirement.

In addition to courses with lab sections, the following courses include some lab experience and will meet the lab requirements for students in the School of Education:

Code	Title	Credits
<b>Course options within the College of Letters &amp; Science</b>		
ANTHRO 105	Principles of Biological Anthropology	3
ATM OCN 101	Weather and Climate	4
BOTANY 100	Survey of Botany	3
GEOSCI 100	Introductory Geology: How the Earth Works	3
PHYSICS 109	Physics in the Arts	3

### Suggested courses options outside the College of Letters & Science

AGRONOMY 100	Principles and Practices in Crop Production	4
BOTANY/PL PATH 123	Plants, Parasites, and People	3
FOOD SCI/MICROBIO 324	Food Microbiology Laboratory	2
HORT 120	Survey of Horticulture	3
PL PATH/BOTANY 123	Plants, Parasites, and People	3

## CULTURAL AND HISTORICAL STUDIES

All students must complete three requirements met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation. A single course cannot satisfy more than one of the three Cultural and Historical Studies requirements listed below.

### Ethnic Studies (minimum 3 credit course)

The Ethnic Studies requirement is intended to increase understanding of the culture and contributions of persistently marginalized racial or ethnic groups in the United States, and to equip students to respond constructively to issues connected with our pluralistic society and global community. Courses that meet this requirement have a specific ethnic studies designation that can be utilized in a course search.

### United States or European History (minimum 3 credits)

The courses listed below count toward this requirement. Additional courses can be considered; students may consult with an advisor in the School of Education Student Services office.

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 154	Hip-Hop and Contemporary American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/AFRICAN/HISTORY/POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/HISTORY 322	Afro-American History to 1900	3-4
AFROAMER/GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/GEN&WS 324	Black Women in America: Reconstruction to the Present	3
AFROAMER/GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3

AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	CHICLA/ HISTORY 153	Latina/Latino/Latinx History	3-4
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
AFROAMER 456	Soul Music and the African American Freedom Movement	3	CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	CHICLA 301	Chicana/o and Latina/o History	3
AFROAMER/ ED POL 567	History of African American Education	3	CHICLA 315	Racial Formation and Whiteness	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
AFROAMER 631	Colloquium in Afro-American History	3	CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	3
AFROAMER 671	Selected Topics in Afro-American History	3	CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	3
<b>American Indian Studies</b>			CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
AMER IND 100	Introduction to American Indian Studies	3	<b>Classics</b>		
AMER IND 250	Indians of Wisconsin	3	CLASSICS 206	Classical Influences on Western Art and Science	3
AMER IND/ ANTHRO 314	Indians of North America	3	<b>Community &amp; Environmental Sociology</b>		
AMER IND 320	Native Peoples of the Southwest	3	C&E SOC/HISTORY/ POLI SCI/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3
AMER IND/ SOC WORK 636	Social Work in American Indian Communities: The Indian Child Welfare Act	3	<b>Dance</b>		
<b>Art History</b>			DANCE 115	Hip-Hop Dance Technique and Theory 1	1-2
ART HIST 357	History of Wisconsin Architecture, 1800-present	3	<b>Educational Policy Studies</b>		
<b>Asian American Studies</b>			ED POL/ HISTORY 107	The History of the University in the West	3
ASIAN AM/ AFROAMER/ AMER IND/CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3	ED POL/ HISTORY 412	History of American Education	3
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	3-4	ED POL/ AFROAMER 567	History of African American Education	3
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	3-4	ED POL/ HISTORY 612	History of Student Activism from the Popular Front to Black Lives Matter	3
ASIAN AM 170	Hmong American Experiences in the United States	3	<b>Environmental Studies</b>		
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4	ENVIR ST/GNS 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3
ASIAN AM/ASIAN/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4	ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3	<b>Folklore</b>		
<b>Chicana/o and Latina/o Studies</b>			FOLKLORE/ GNS 200	Folklore of Central, Eastern and Northern Europe	3
CHICLA/ AFROAMER/ AMER IND/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3	<b>Gender and Women's Studies</b>		
CHICLA/ HISTORY 151	The North American West to 1850	3-4	GEN&WS/ HIST SCI 537	Childbirth in the United States	3
CHICLA/ HISTORY 152	The U.S. West Since 1850	3-4	<b>History—United States History</b>		
			HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
			HISTORY 102	American History, Civil War Era to the Present	4
			HISTORY/ ED POL 107	The History of the University in the West	3
			HISTORY 109	Introduction to U.S. History	3-4
			HISTORY/ENVIR ST/ HIST SCI 125	Green Screen: Environmental Perspectives through Film	3

HISTORY 136	Sport, Recreation, & Society in the United States	3-4	HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY 140	Conspiracy Theories in Context	3-4	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3	HISTORY 345	Military History of the United States	3-4
HISTORY 145	America and China, 1776-Today	3-4	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY 150	American Histories: The Nineteenth Century	4	HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY/ CHICLA 151	The North American West to 1850	3-4	HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4	HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4	HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4	HISTORY 401	Public History Workshop	3
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY/ AMER IND 190	Introduction to American Indian History	3-4	HISTORY/ ED POL 412	History of American Education	3
HISTORY 201	The Historian's Craft (topic must be approved)	3-4	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4	HISTORY 427	The American Military Experience to 1902	3-4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY 221	Explorations in American History (H)	3-4	HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
HISTORY 227	Explorations in the History of Race and Ethnicity	3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/C&E SOC/ POLI SCI/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3	HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3	HISTORY/ ECON 466	The American Economy Since 1865	3-4
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3	HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY 500	Reading Seminar in History (U.S. Topics)	3
HISTORY 272	History Study Abroad: United States History	1-4	HISTORY/ LEGAL ST 510	Legal Pluralism	3
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HISTORY/ JOURN 560	History of U.S. Media	4
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY/L I S 569	History of American Librarianship	3
HISTORY 306	The United States Since 1945	3-4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4	HISTORY/ ED POL 612	History of Student Activism from the Popular Front to Black Lives Matter	3
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY 329	History of American Capitalism	4			

**History—European History**

HISTORY/ CLASSICS 110	The Ancient Mediterranean	4	HISTORY 351	Seventeenth-Century Europe	3-4
HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4	HISTORY 357	The Second World War	3-4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4	HISTORY 358	French Revolution and Napoleon	3-4
HISTORY 115	Medieval Europe 410-1500	4	HISTORY 359	History of Europe Since 1945	3-4
HISTORY 119	Europe and the World, 1400-1815	4	HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY 120	Europe and the Modern World 1815 to the Present	4	HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
HISTORY 123	English History: England to 1688	3-4	HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY 124	British History: 1688 to the Present	4	HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
HISTORY 201	The Historian's Craft (topic must be approved)	3-4	HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4	HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4	HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY 223	Explorations in European History (H)	3-4	HISTORY 417	History of Russia	3-4
HISTORY 224	Explorations in European History (S)	3	HISTORY 418	History of Russia	3-4
HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4	HISTORY 419	History of Soviet Russia	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY 271	History Study Abroad: European History	1-4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY 303	A History of Greek Civilization	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY 307	A History of Rome	3-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ JEWISH 310	The Holocaust	3-4	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/ HIST SCI 324	Science in the Enlightenment	3	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY 349	Contemporary France, 1914 to the Present	3-4	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4			

HISTORY/  
SCAND ST 577 Contemporary Scandinavia: Politics  
and History 3-4

### History of Science

HIST SCI/HISTORY/  
MED HIST 132 Bees, Trees, Germs, and Genes: A  
History of Biology 3

HIST SCI 150 The Digital Age 3

HIST SCI/  
HISTORY 171 History of Medicine in Film 3-4

HIST SCI 201 The Origins of Scientific Thought 3

HIST SCI/  
MED HIST 218 History of Twentieth Century  
American Medicine 3

HIST SCI/  
AFROAMER 275 Science, Medicine, and Race: A  
History 3

HIST SCI 404 A History of Disease 3-4

HIST SCI/  
MED HIST 509 The Development of Public Health  
in America 3

HIST SCI/  
AFROAMER/  
MED HIST 523 Race, American Medicine and Public  
Health 3

HIST SCI/GEN&WS/  
MED HIST 531 Women and Health in American  
History 3

HIST SCI/GEN&WS/  
MED HIST 532 The History of the (American) Body 3

HIST SCI/  
GEN&WS 537 Childbirth in the United States 3

### Integrated Liberal Studies

ILS 201 Western Culture: Science,  
Technology, Philosophy I 3

ILS 202 Western Culture: Science,  
Technology, Philosophy II 3

### International Studies

INTL ST/  
HISTORY 332 East Asia & The U.S. Since 1899 3-4

### Legal Studies

LEGAL ST/  
ENVIR ST/  
HISTORY 430 Law and Environment: Historical and  
Contemporary Perspectives 3

### Medical History and Bioethics

MED HIST/  
HIST SCI 218 History of Twentieth Century  
American Medicine 3

### Music

MUSIC 202 Delta Blues 3

MUSIC 203 American Ethnicities and Popular  
Song 3

MUSIC 317 Musical Women in Europe and  
America: Creativity, Performance,  
and Identity 3

### Political Science

POLI SCI/C&E SOC/  
HISTORY/SOC 259 Forward? The Wisconsin Idea, Past  
and Present 1-3

POLI SCI/CHICLA/  
HISTORY/  
LACIS 268 The U.S. & Latin America from  
the Colonial Era to the Present: A  
Critical Survey 3

POLI SCI/CHICLA/  
HISTORY/LACIS 355 Labor in the Americas: US &  
Mexico in Comparative & Historical  
Perspective 3

POLI SCI/CHICLA/  
HISTORY 422 Latino History and Politics 3

### Scandinavian Studies

SCAND ST 348 The Second World War in Nordic  
Culture 3

### Sociology

SOC/C&E SOC/  
HISTORY/  
POLI SCI 259 Forward? The Wisconsin Idea, Past  
and Present 1-3

### Global Perspectives (minimum 3 credits)

Global perspectives courses include courses whose primary emphasis is on:

- cultures whose origins lie outside of the western tradition, or
- analyzing and interpreting cultural differences through the study of language, gender, race, ethnicity, religion, or class, or
- cultural pluralism within specific geographical areas.

The courses listed below count toward this requirement. Additional courses can be considered; students may consult with an advisor in the School of Education Student Services Office.

Code	Title	Credits
<b>African Cultural Studies</b>		
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN 201	Introduction to African Literature	3
AFRICAN 202	Introductory Topics in African Cultural Studies	3
AFRICAN 203	Introductory Topics in African Literature	3
AFRICAN 204	Introductory Topics in African Languages	3
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 212	Introduction to African Popular Culture	3
AFRICAN/ FRENCH 216	Modern and Contemporary Francophone Topics	3
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
AFRICAN/ FOLKLORE 270	The Hero and Trickster in African Oral Traditions	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4



AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	ANTHRO 100	General Anthropology	3
AFRICAN 300	African Literature in Translation	3	ANTHRO 102	Archaeology and the Prehistoric World	3
AFRICAN/ INTL ST 302	Arabic Literature and Cinema	3	ANTHRO 104	Cultural Anthropology and Human Diversity	3
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	4	ANTHRO 105	Principles of Biological Anthropology	3
AFRICAN 403	Theories of African Cultural Studies	3	ANTHRO/ FOLKLORE/ INTL ST/LINGUIS 211	Global Language Issues	3
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	3	ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3
AFRICAN/ COM ARTS/ L I S 444	Technology and Development in Africa and Beyond	3	ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
<b>Afro-American Studies</b>			ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN 220	HipHop, Youth Culture, and Politics in Senegal	3	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFROAMER/ AFRICAN 233	Global HipHop and Social Justice	3	ANTHRO/ AMER IND 314	Indians of North America	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	ANTHRO 321	The Emergence of Human Culture	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	ANTHRO 322	The Origins of Civilization	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	ANTHRO 330	Topics in Ethnology <small>(topic must be approved)</small>	3-4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4	ANTHRO 333	Prehistory of Africa	3
AFROAMER/ GEN&WS 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	ANTHRO 339	Archaeology of Warfare and Human Nature	3
<b>Agricultural and Applied Economics</b>			ANTHRO 350	Political Anthropology	3-4
A A E/ENVIR ST 244	The Environment and the Global Economy	4	ANTHRO 357	Introduction to the Anthropology of Japan	3-4
A A E 319	The International Agricultural Economy	3	ANTHRO 365	Medical Anthropology	3
A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3	<b>Art History</b>		
A A E/INTL ST 373	Globalization, Poverty and Development	3	ART HIST 203	Survey of Asian Art	3-4
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3	ART HIST 205	Global Arts	4
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3	ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	3
<b>Agromony</b>			ART HIST 305	History of Islamic Art and Architecture	3
AGRONOMY/ ENTOM/ NUTR SCI 203	Introduction to Global Health	3	ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
AGRONOMY/A A E/ NUTR SCI 350	World Hunger and Malnutrition	3	ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
AGRONOMY 377	Global Food Production and Health	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
<b>Anthropology</b>			ART HIST 372	Arts of Japan	3-4
			ART HIST 375	Later Japanese Painting and Woodblock Prints	3-4

ART HIST/ ASIAN 379	Cities of Asia	3	ASIAN/ RELIG ST 466	Buddhist Thought	3
ART HIST 411	Topics in Asian Art	3-4	ASIAN/ RELIG ST 505	The Perfectible Body in Religions, Medicines, and Politics	3
ART HIST 412	Topics in African and African Diaspora Art History	3-4	ASIAN 533	Readings in Early Modern Japanese Literature	3
ART HIST 413	Art and Architecture in the Age of the Caliphs	3	ASIAN 642	History of Chinese Literature II	3
ART HIST/ ASIAN 428	Visual Cultures of India	3	<b>Classics</b>		
ART HIST 440	Art and Power in the Arab World	3	CLASSICS 321	The Egyptians: History, Society, and Literature	3
ART HIST 475	Japanese Ceramics and Allied Arts	3	<b>Community &amp; Environmental Sociology</b>		
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3	C&E SOC/SOC 140	Introduction to Community and Environmental Sociology	4
ART HIST 479	Art and History in Africa	3-4	C&E SOC/ AFROAMER/ ANTHRO/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ART HIST 510	Proseminar in Islamic Art and Architecture	3	<b>Dance</b>		
<b>Asian Languages and Cultures</b>			DANCE 118	African Dance	1
ASIAN 100	Gateway to Asia: Special Topics	3-4	DANCE 165	World Dance Cultures: Traditional to Contemporary	3
ASIAN 252	Contemporary Indian Society	4	DANCE/ THEATRE 218	African Dance Performance	2
ASIAN 253	Japanese Popular Culture	3	DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4	DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
ASIAN/ RELIG ST 274	Religion in South Asia	3	<b>Environmental Studies</b>		
ASIAN 277	Kendo: Integration of Martial Arts and Liberal Arts	2	ENVIR ST/ GEOG 139	Global Environmental Issues	3
ASIAN 300	Topics in Asian Studies	3	ENVIR ST/ ENTOM 205	Our Planet, Our Health	3
ASIAN 301	Social Studies Topics in East Asian Studies	1-3	ENVIR ST/ HIST SCI 213	Global Environmental Health: An Interdisciplinary Introduction	3
ASIAN/ RELIG ST 306	Hinduism	3	ENVIR ST/A A E 244	The Environment and the Global Economy	4
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3	ENVIR ST/ GEOG 309	People, Land and Food: Comparative Study of Agriculture Systems	3
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4	ENVIR ST/ ATM OCN/ GEOG 322	Polar Regions and Their Importance in the Global Environment	3
ASIAN 310	Introduction to Comics and Graphic Novels: Theory, History, Method	3	ENVIR ST/ GEOG 339	Environmental Conservation	4
ASIAN 311	Modern Indian Literatures	3	ENVIR ST/HIST SCI/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
ASIAN/ RELIG ST 350	Introduction to Taoism	3-4	ENVIR ST/ HISTORY 465	Global Environmental History	3-4
ASIAN 351	Survey of Classical Chinese Literature	3	<b>Folklore</b>		
ASIAN 352	Survey of Modern Chinese Literature	3	FOLKLORE 100	Introduction to Folklore	3
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3	FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3
ASIAN 355	Modern Japanese Literature	3			
ASIAN 361	Love and Politics: The Tale of Genji	3			
ASIAN 371	Topics in Chinese Literature	2-3			
ASIAN 378	Anime	3			
ASIAN/ ART HIST 379	Cities of Asia	3			
ASIAN 403	Southeast Asian Literature	3			
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	3			

FOLKLORE/ AFRICAN 210	The African Storyteller	3	GEOG 358	Human Geography of Southeast Asia (German, Nordic, and Slavic)	3
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	3	GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3	GEOG 507	Waste Geographies: Politics, People, and Infrastructures	3
FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2	<b>German, Nordic, and Slavic</b>		
FOLKLORE/ RELIG ST 352	Shamanism	3	GNS/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
<b>Gender and Women's Studies</b>			GNS 460	Readings in Turkish: Contemporary Turkey through Literature and Media	4
GEN&WS 102	Gender, Women, and Society in Global Perspective	3	<b>History</b>		
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4	HISTORY/ASIAN 103	Introduction to East Asian History: China	3-4
GEN&WS/ AFROAMER 367	Art and Visual Culture: Women of the African Diaspora and Africa	3	HISTORY/ASIAN 104	Introduction to East Asian History: Japan	3-4
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3	HISTORY 105	Introduction to the History of Africa	3-4
GEN&WS 427	Global Feminisms	3	HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
GEN&WS/ PORTUG 450	Brazilian Women Writers	3	HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4
<b>Geography</b>			HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
GEOG 101	Introduction to Human Geography	4	HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4
GEOG/ ENVIR ST 139	Global Environmental Issues	3	HISTORY 130	An Introduction to World History	3-4
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY 133	Global Military History (5000 BCE - Present)	3-4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY/ GEN&WS 134	Women and Gender in World History	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	HISTORY 139	Introduction to the Modern Middle East	3-4
GEOG 307	International Migration, Health, and Human Rights	3	HISTORY 142	History of South Asia to the Present	3-4
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3	HISTORY 144	Traveling the World: South Asians in Diaspora	4
GEOG/INTL ST 311	The Global Game: Soccer, Politics, and Identity	3	HISTORY 145	America and China, 1776-Today	3-4
GEOG/INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	3	HISTORY 201	The Historian's Craft (Latin American Topics)	3-4
GEOG/ ENVIR ST 339	Environmental Conservation	4	HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
GEOG 340	World Regions in Global Context	3	HISTORY 225	Explorations in Third World History (H)	3-4
GEOG 348	Latin America	4	HISTORY 228	Explorations in Transnational/Comparative History (Social Science) (topic must be approved)	3
GEOG 355	Africa, South of the Sahara	3	HISTORY 229	Explorations in Transnational/Comparative History (Humanities) (topic must be approved)	3
			HISTORY 241	Latin America from 1780 to 1940	4
			HISTORY/INTL ST/ LACIS 242	Modern Latin America	4
			HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4

HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4	HISTORY 438		3-4
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3	HISTORY 444	History of East Africa	3-4
HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3	HISTORY 445	History of Equatorial Africa	3-4
HISTORY 273	History Study Abroad: Non-Western History	1-4	HISTORY 450	Making of Modern South Asia	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY 278	Africans in the Americas, 1492-1808	3-4	HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4	HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4	HISTORY/ ASIAN 463	Topics in South Asian History	3
HISTORY/ MIEVEAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY/ ENVIR ST 465	Global Environmental History	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4	HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4	HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3
HISTORY/ ASIAN 335	The Koreans: Korean War to the 21st Century	3-4	<b>History of Science</b>		
HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4	HIST SCI/ ENVIR ST 213	Global Environmental Health: An Interdisciplinary Introduction	3
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4	HIST SCI/ENVIR ST/ RELIG ST 356	Islam, Science & Technology, and the Environment	3-4
HISTORY 340	Cultural History of Korea	3-4	<b>International Business</b>		
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4	INTL BUS 200	International Business	3
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4	<b>International Studies</b>		
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	INTL ST 101	Introduction to International Studies	3-4
HISTORY/ ASIAN 363	China and World War II in Asia	3-4	INTL ST 266	Introduction to the Middle East	3
HISTORY/ POLI SCI 370	Islam and Politics	3-4	INTL ST 310	International Learning Community Seminar. (specific topic must be approved)	1-3
HISTORY/ INTL ST 375	The Cold War - From World War II to End of Soviet Empire	3-4	INTL ST/ ED POL 335	Globalization and Education	3
			INTL ST/A A E 373	Globalization, Poverty and Development	3
			INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
			<b>Literature in Translation</b>		
			LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3
			LITTRANS 231	Manga	3
			LITTRANS 232	Anime	3
			LITTRANS 261	Survey of Chinese Literature in Translation	3
			LITTRANS 262	Survey of Chinese Literature in Translation	3

LITTRANS 263	Survey of Japanese Literature in Translation	3	POLI SCI 324	Chinese Politics	3-4
LITTRANS 264	Survey of Japanese Literature in Translation	3	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
LITTRANS 368	Modern Japanese Fiction	3	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
LITTRANS 373	Topics in Japanese Literature	3	POLI SCI 328	Politics of East and Southeast Asia	3-4
LITTRANS 374	Topics in Korean Literature	3	POLI SCI 329	African Politics	3-4
<b>Medieval Studies</b>					
MEDIEVAL/ HISTORY/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4	POLI SCI 336	Democracy (and Its Uncertain Future)	4
MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
<b>Music</b>					
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	3	POLI SCI 346	China in World Politics	3-4
MUSIC 260	Global Hand Drumming Ensemble: Survey of Selected Global Hand Drumming Traditions	1	POLI SCI 349	Global Access to Justice	3
<b>Nutritional Sciences</b>					
NUTR SCI/ AGRONOMY/ ENTOM 203	Introduction to Global Health	3	POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition	3	POLI SCI 455	African International Relations	3-4
<b>Political Science</b>					
POLI SCI 120	Introduction to Comparative Politics	4	<b>Population Health</b>		
POLI SCI 182	Introduction to Comparative Politics (Honors)	3	POP HLTH/ C&E SOC 370	Introduction to Public Health	3
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4	<b>Religious Studies</b>		
POLI SCI/ASIAN/ GEOG/HISTORY/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	RELIG ST/HISTORY/ MEDIÉVAL 112	The World of Late Antiquity (200-900 C.E.)	4
POLI SCI/ASIAN/ HISTORY 255	Introduction to East Asian Civilizations	3-4	RELIG ST/ HISTORY 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4	RELIG ST/ ASIAN 206	The Qur'an: Religious Scripture & Literature	3
POLI SCI/CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3	RELIG ST/ASIAN/ HISTORY 267	Asian Religions in Global Perspective	3
POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4	RELIG ST/ ASIAN 274	Religion in South Asia	3
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4	RELIG ST/ ASIAN 307	A Survey of Tibetan Buddhism	3
POLI SCI 320	Governments and Politics of the Middle East and North Africa	3-4	RELIG ST/ASIAN/ HISTORY 308	Introduction to Buddhism	3-4
POLI SCI 321	Latin-American Politics	3-4	RELIG ST/HISTORY/ MEDIÉVAL 309	The Crusades: Christianity and Islam	3-4
POLI SCI 322	Politics of Southeast Asia	3-4	RELIG ST/ ASIAN 350	Introduction to Taoism	3-4
			RELIG ST/ FOLKLORE 352	Shamanism	3
			RELIG ST/ENVIR ST/ HIST SCI 356	Islam, Science & Technology, and the Environment	3-4
			RELIG ST/AFRICAN/ ASIAN 370	Islam: Religion and Culture	4
			RELIG ST 400	Topics in Religious Studies - Humanities (topic must be approved)	3-4
			RELIG ST 401	Topics in Religious Studies - Social Studies (topic must be approved)	3-4
			RELIG ST 438		3-4
			RELIG ST/ ASIAN 466	Buddhist Thought	3
			<b>Sociology</b>		
			SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
			SOC 170	Population Problems	3-4

SOC/C&E SOC 222	Food, Culture, and Society	3
SOC 225	Contemporary Chinese Society	3
SOC/ASIAN/ GEOG/HISTORY/ POLI SCI 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOC/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SPANISH 260	Latin America: An Introduction	3-4
SOC/AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI 277	Africa: An Introductory Survey	4
<b>Spanish</b>		
SPANISH 223	Introduction to Hispanic Cultures	3
SPANISH/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4
<b>Theatre</b>		
THEATRE/DANCE/ FOLKLORE 321	Javanese Performance	2
THEATRE 351	Fundamentals of Asian Stage Discipline	3
THEATRE 526	The Theatres of China and Japan	3

## LIBERAL STUDIES ELECTIVES

Complete additional liberal studies coursework as needed to reach the required 40 Liberal Studies credits.

### Important Notes Regarding the Liberal Studies Electives

## GUIDELINES FOR SPECIFIC PROGRAM AREAS

- Completion of the Liberal Studies requirements is not a prerequisite to professional program application or admission.
- For the most part, courses listed in School of Education departments may not be used to satisfy the Liberal Studies requirements. School of Education departments include Art, Art Education, Counseling Psychology, Curriculum and Instruction, Dance, Educational Leadership and Policy Analysis, Educational Policy Studies, Educational Psychology, Kinesiology, Rehabilitation Psychology and Special Education, and Theatre and Drama.
  - For example, KINES 100 Exercise, Nutrition, and Health, cannot count toward the Liberal Studies requirement even though it is a Biological Science course. ED PSYCH 320 Human Development in Infancy and Childhood cannot count toward Liberal Studies even though it is a Social Science course.
  - Exceptions include some courses that are cross-listed in departments outside the School of Education such as ED POL/HISTORY 412 History of American

Education. Art and Dance department courses count toward the Humanities requirement.

- Courses that transfer to UW–Madison as departmental electives (e.g., POLI SCI X10) might meet specific Liberal Studies requirements. Students may consult with an advisor in the School of Education Student Services Office to discuss transfer electives that appear to meet specific course requirements.
- While one course may cover two requirements, students must still complete both the 40-credit total and the 9-credit minimum requirements in Humanities, Social Studies (Social Science), and Science.
  - For example, THEATRE/ENGL 120 Introduction to Theatre and Dramatic Literature, a Literature course also on the Fine Arts list, may be used to meet both the specific Fine Arts and Literature requirements of the Humanities area, but a total of 9 credits of Humanities are still required.
- Courses in other schools/colleges (excluding the School of Education) may count as Liberal Studies if they have an L&S Credit Type designation of C and/or assigned a level or breadth descriptor.

## Teacher Education programs

All teacher education students, except those in music education or art education, may apply any appropriate coursework from the major or minor toward the Liberal Studies requirements. Students in music and art education are restricted in this overlap. For students in music education, no more than 6 credits of music history and no more than 4 art and dance credits may count toward the 40 total credits. Music history courses (e.g., MUSIC 211 Survey of the History of Western Music, MUSIC 212 Survey of the History of Western Music) may not be used to meet the U.S./ European History requirement.

**Note:** Changes in the music education requirements are anticipated; consult with the music education advisor. Art education students may apply all of the aesthetics credits (usually 14) toward the Liberal Studies requirements, but not courses taken to meet the studio requirements.

## Art (BFA and B.S.)

In general, students may not satisfy Liberal Studies requirements with courses meeting studio or aesthetics requirements. However, Art–BFA candidates may apply 4 aesthetics elective credits toward the Humanities credits.

## Kinesiology and Physical Education

Kinesiology and physical education students will meet the Science requirement by completing their required science courses—e.g., chemistry and physics.

## Communication Sciences and Disorders

Communication sciences and disorders students should consult both the Liberal Studies requirements and the communication sciences and disorders program requirements, particularly the "related courses" section, when selecting Liberal Studies coursework. Courses may count in both places. Note: The American Speech–Language–Hearing Association (ASHA) standards now specify that a course in each of the following areas is required for ASHA certification.

- Biological sciences
- Physical sciences (chemistry or physics)

- Statistics
- Social/behavioral sciences

### Dance (BFA & BS)

Dance and Dance–BFA students must complete ANAT&PHY 338 Human Anatomy Laboratory, which will meet both a Science requirement and the Science Laboratory requirement. In general, Liberal Studies requirements cannot be met with courses taken to meet other program requirements.

### Rehabilitation Psychology

In general, rehabilitation psychology students may not satisfy Liberal Studies requirements with courses taken to meet the Related Course Requirements in Rehabilitation Psychology. Courses applied toward the other parts of the Rehab Psych requirements cannot also count toward the 40 Liberal Studies credits. However, if a course is taken to meet any of the three Cultural/Historical Studies requirements, the course *content* can be used to meet both requirements, but the *credits* will only count in the Rehabilitation Psychology or Related Course Requirements areas. Once the required credits have been met, additional course work in Psychology, Sociology, Social Work, etc. may be applied toward Liberal Studies.

### Theatre and Drama

Theatre and drama students can apply major coursework toward the Liberal Studies requirements.

## RESOURCES

# SCHOOL OF EDUCATION STUDENT SERVICES: ACADEMIC ADVISING, STUDENT DIVERSITY SUPPORT, SCHOOL OF EDUCATION CAREER CENTER

139 Education Building, 1000 Bascom Mall; 608-262-1651

Dedicated to supporting and promoting student success, the School of Education Student Services (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) office coordinates a number of student-related services for prospective and current School of Education students in all programs. Student Services staff provide:

- Academic advising
- Career advising
- Mentoring and advocacy for underrepresented and international students
- Requirement monitoring and help with course selection
- Referrals to other campus resources
- Someone to talk to
- and more!

Students in the School of Education are encouraged to make Student Services a vital part of their academic and employment journey.

**To schedule an appointment:** Current students should schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at

[studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

## ACADEMIC ADVISING

Choosing a major and navigating the completion of a degree or certificate can be an exciting process, and one that students don't need to figure out on their own. Advisors help you find the right fit and create a unique pathway through your degree.

All students are assigned an Academic Advisor (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) from the Student Services office who will provide advising throughout the degree. If desired, appointments can still be made with any advisor on the team. Program or departmental advisors are also assigned to School of Education students. Plan to utilize your advising team – your academic, career, and program advisors; each advisor has specialized knowledge to help you succeed.

Regular meetings with an academic advisor can help keep you on track to complete your requirements and also help to refine your learning goals. Tell us what you are enjoying about your learning, something you want to try out, skills you want to build, and careers that are intriguing to you.

In conversations with your advisor we/you can:

- Discuss your major, degree requirements, course selection, and career ideas.
- Tell us what you need. We are experts on helping you find campus resources such as tutoring, counseling, advising for pre-health careers, getting involved with student organizations, or acquiring experience in your career interest area.
- Explore studying abroad, working/volunteering and internships, or learning specific skills like a language, communication techniques, or leadership.
- Think expansively! Make the most out of your college experience.

Program advisors help students select and plan a program of study in the major, negotiate issues within the department and, in the case of certification programs, follow the students' progress through their professional courses. The divisions between program advising and Student Services advising are flexible. Students are encouraged to consult with all advisors who can help with a situation or answer a question.

## STUDENT DIVERSITY SUPPORT

The UW–Madison School of Education is committed to promoting equity and increasing diversity in its programs. In keeping with this commitment, Student Services staff include advisors with extensive experience assisting underrepresented and international students.

Students are supported in their personal and professional growth, their transition from high school to college, financial aid, and career exploration. Advisors perform outreach, recruitment, and advising on behalf of the School, and work collaboratively with the rest of Student Services and other campus and community partners to support underrepresented and international students interested in School of Education majors. Prospective transfer students will get assistance with the application process, how courses transfer to UW–Madison, and other transfer-related concerns.

Students are invited to stop in the Student Services office or set up an appointment for a visit. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also

be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

## SCHOOL OF EDUCATION CAREER CENTER

As a School of Education student, the experiences and skills you develop through our programs will prepare you for success in a wide variety of career fields.

The Career Center (<https://careercenter.education.wisc.edu/>) is here to support you every step of the way!

- Meet with a Career & Internship Advisor (<https://careercenter.education.wisc.edu/appointments/>) your first year on campus to begin exploring career pathways of interest. Learn what the possibilities are and start to build your roadmap to success.
- Connect with professionals in your desired field(s) for guidance or to gain experience through paid internships (<https://careercenter.education.wisc.edu/internships-for-school-of-education-students/>), field experiences, or career events (<https://careercenter.education.wisc.edu/fairs-events/>).
- Prepare to successfully land an internship, job, or graduate school admittance through personalized career advising, group workshops or structured career courses. From résumés (<https://careercenter.education.wisc.edu/creating-application-materials/resume-writing/>), to cover letters (<https://careercenter.education.wisc.edu/creating-application-materials/cover-letters/>), to job or internship searches, interviews (<https://careercenter.education.wisc.edu/interviewing/>), and navigating decisions (<https://careercenter.education.wisc.edu/job-search/managing-job-offers/>), we will be here to help guide you.
- Stay connected post-graduation as you navigate your professional career; share your experience with future School of Education Badgers!

Current students may schedule career advising appointments through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in their MyUW account.

## SCHOLARSHIPS/THE TEACHER PLEDGE/TEACH GRANTS

### SCHOLARSHIPS

The generosity of alumni and friends has enabled the School of Education to distribute over \$1 million in scholarships and awards annually to deserving undergraduate students.

School of Education departmental scholarships (Art, Dance, Curriculum and Instruction, Theatre and Drama, Kinesiology, Rehabilitation Psychology and Special Education, and Educational Policy Studies) are generally awarded to students declared in their major or accepted to their program. School-wide scholarships are available to any student; however, most of these are based on financial need.

Selections of scholarship recipients are made by committees, and based on matches to particular scholarships as well as strength of application. The criteria for scholarships may include academic performance, excellence in a specific field or area, potential as a prospective teacher, leadership ability, personal attributes (such as returning adult status or home county), and financial need. All scholarship and award recipients must be in good academic standing in the School of Education.

Applying for School of Education Scholarships begins with completing the Wisconsin Scholarship Hub WiSH "General Application." Through a series of filtering questions, students are guided to appropriate departmental or school-wide applications, including All School and Teacher Education categories. Each application represents a group of scholarships for which a student might be eligible, and a student may be eligible for more than one group (and thus may need to complete several applications). Note that some applications require responses to essay questions and/or submission of letters of recommendation or other materials.

While the WiSH (<https://wisc.academicworks.com/>) General Application has an annual application cycle from August – August, the School of Education (and several department) scholarship applications open in early February and remain open until the end of March each academic year. There are a few School of Education department applications that open and close outside of the February – March window. Please be sure to check your department's application deadlines. Scholarship decisions are generally made between March – June.

Each year the number of scholarships available continues to grow; however, not every student who applies receives funding.

## THE TEACHER PLEDGE

The UW-Madison School of Education Wisconsin Teacher Pledge is a financial aid program for UW-Madison teacher education students. The Teacher Pledge offers undergraduate and graduate teacher education students up to the cost of in-state tuition, plus testing and licensing fees, in exchange for a commitment to teach in Wisconsin. For each year taught in a PK-12 school in Wisconsin, a portion of the Teacher Pledge loan will be forgiven – reaching 100% forgiveness after a three-to-four year teaching commitment.

- For general information, visit the Teacher Pledge Website (<https://tec.education.wisc.edu/teacher-pledge/>).
- Check out How to Take the Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/how-to-take-pledge/>) – a checklist that guides students through Teacher Pledge requirements from A to Z, including how to participate.
- For answers to frequently asked questions, check out the Teacher Pledge FAQ (<https://tec.education.wisc.edu/teacher-pledge/faq/>).

## TEACH GRANTS

Students willing to teach in high-need teaching fields can receive TEACH Grants of up to \$4,000 per year for a total of \$16,000 over their undergraduate academic career, or \$8,000 over their graduate academic career. Officially-designated high need fields include Master of Science with Secondary Teaching and ESL Certification; Art; Bilingual Education; Communication Sciences and Disorders; English as a Second Language; Health; Mathematics; Music; Physical Education; Reading Specialist; Science certification areas; Special Education; World Language Education certification areas, and any other fields documented as high-need by the federal government and/or state or local education agency (LEA). Students completing the Elementary Education and Special Education dual certification program or Elementary Education with the ESL minor or the Early Childhood Education minor are also eligible for a TEACH Grant.

Students receiving TEACH Grants must complete a service obligation of four years of teaching full-time in their high-need field in a designated low-income school. This must be accomplished within eight years after



completing a teacher preparation program. Low-income schools are defined as public or private nonprofit elementary or secondary schools, or educational service agencies eligible for assistance under Title I of the Elementary and Secondary Education Act. In Wisconsin, over a thousand schools are designated as low income.

TEACH Grant applicants must attain certain academic eligibility criteria. Candidates must have scored minimally above the 75th percentile on a nationally normed admissions test or have earned a 3.25 minimum cumulative grade point average. Grant recipients must have completed a Free Application for Federal Student Aid (FAFSA) (<https://studentaid.gov/>) to be eligible.

Prior to submitting an application, students are strongly encouraged to learn about the parameters of the TEACH Grant and obtain answers to any related questions. Indicate an interest in the TEACH Grant via the FAFSA and by completing the program application (<https://education.wisc.edu/wp-content/uploads/sites/4/2023/03/TEACH-Grant-Application.pdf>). Students should make sure to review the complete application instructions (<https://education.wisc.edu/wp-content/uploads/sites/4/2023/03/TEACH-Grant-Instructions.pdf>) to ensure the proper submission of all application materials. For more information, please visit the Federal student Aid Webpage (<https://studentaid.gov/understand-aid/types/grants/teach/>).

## INTERNSHIPS

An internship is a learning experience that allows you to apply concepts or skills learned in your academic program in a workplace setting. Most students participate the summer after junior year, but experiences are available during the academic year as well. The School of Education Career Center team actively builds relationships with employers in various fields and geographic locations to offer high-quality, paid internships to our students. Employers are eager to offer experiences to School of Education students due to their academic preparation, creativity, genuine care for others, and appreciation for differing perspectives.

Through an internship experience, students:

- Gain experience in their field(s) of interest.
- “Test drive” career pathways, developing clarity and confidence.
- Build their résumé (<https://careercenter.education.wisc.edu/>) and network.
- Develop the skills and experience to land a future job or graduate school placement.

Examples of internships that School of Education students have participated in include:

- Badger Den Strength: Intern
- Joffrey Ballet: Administrative Intern
- Morgridge Center for Public Service: Badger Volunteers Education Coordinator
- Panorama Education: Project Management Intern
- UW PEOPLE Program: College Readiness Mentor
- U.S. Senate: Intern
- Wisconsin Union: Wisconsin Union Directorate Internship

Interested in learning more? Visit the Career Center’s Internships for Students (<https://careercenter.education.wisc.edu/internships-for-school-of-education-students/>) web page.

## STUDY ABROAD AND INTERNATIONAL INTERNSHIPS

The School of Education encourages all students to participate in study abroad and international internship opportunities. Studying and interning abroad builds skills and knowledge that prepare students to work with others from around the globe to address the world’s toughest challenges. Through study abroad and international internship programs, students can:

- Expand their world view.
- Enhance their career opportunities and grow their network.
- Position themselves to learn another language and improve multi-lingual and cross-cultural communications skills.
- Experience another culture first-hand.
- Make new friends and connections from around the world.
- Discover new things about their own culture.
- Learn more about themselves and gain self-awareness.
- Strengthen communication, team-building, and adaptability skills.
- Boost confidence and independence.
- Become a savvy traveler.

(International Institute of Education (<https://www.iie.org/Learn/Blog/2017/11/2017-Nov-14-10-Great-Reasons-to-Study-Abroad/>), 2017)

The School of Education seeks to make studying abroad a possibility for all students. Many academic departments have created Major Advising Pages (MAPs) (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/>). MAPs are a guide to the academic requirements of specific majors or certificates in relation to study abroad. Check out the Major Advising Pages to find out when and where might be the best options to study abroad.

The International Academic Programs (IAP) Office (see below) and the School of Education seek to make studying abroad affordable for students. Make sure to review the IAP scholarship page (<https://studyabroad.wisc.edu/funding/scholarships/>). In particular, check out the scholarships that are specifically for SoE majors.

School of Education students, and students planning to pursue a certificate in the School, are encouraged to explore different study abroad and international internship options early, even during the first or second semester on campus. While study and interning abroad is open throughout the undergraduate years, for some majors going early is the best option.

Why should School of Education students explore their options to study or intern abroad early?

- Some degree programs, such as teacher education or kinesiology, have structured course sequences in the junior and senior year. Studying abroad in the first two years may be the best course of action for students in these program areas. Advisors in the School of Education Student Services and International Academic Programs offices can assist in identifying the best time to study abroad.
- Scholarships! Working with the International Academic Programs, International Internship Program, Financial Aid, and the SoE Global Engagement Office early allows students to explore many scholarship options. Pre-planning around the costs of studying or interning abroad helps make participating a reality.

- Many UW-Madison students are the first in their families to study or intern abroad. Exploring study and intern abroad options early allows students to get key information to share with those closest to them. Considering a study or intern abroad opportunity can be daunting. Getting as much information as possible, as early as possible, can help dispel some of the fears and uncertainties students and their families may have.

Another option is to enroll in one of the summer study abroad courses offered by the School of Education. A new initiative of the school, these courses are led by UW-Madison instructors in 3-4 week sessions. In the summer of 2023 students studied:

- Diversity and Community in the Galapagos Islands (Ecuador)
- Team Building in Costa Rica
- Theatre in London
- Movement as Medicine in Portugal

Additional courses are in development!

## STUDY ABROAD

International Academic Programs, 301 Red Gym, 716 Langdon Street  
608-265-6329

International Academic Programs (IAP) (<https://www.studyabroad.wisc.edu/>) is the central study abroad office at UW-Madison. IAP typically offers over 200 study abroad options in over 60 countries on 6 continents. Studying abroad complements students' on-campus academic goals, strengthens their professional potential and enriches their personal lives. Although COVID-19 has altered IAP's offerings, there are still opportunities to explore both internationally and domestically (e.g., the Washington D.C. semester program).

Students of all academic levels and majors study abroad. While many programs include language training—from the basics to full language immersion—most IAP programs have no language requirement and include courses taught in English.

Students advance towards their degrees while studying abroad. All courses taken abroad through IAP count as "in-residence" credit, just like taking courses on campus at UW-Madison. And study abroad isn't limited to classroom experience! Many students also complete internships, do research, fieldwork, and service learning.

In addition to resources on health, safety, academic planning and other aspects of studying abroad, UW-Madison students receive personalized guidance on how to finance their experience and the many scholarship opportunities available through the UW-Madison and external scholarships. Program costs vary widely. Sometimes studying abroad is no more expensive than studying on campus, and other times the cost can be higher. Student financial aid is usually applied to study abroad experiences, and some countries permit students to work while participating in a study abroad program. Working out these details takes time, dedication, and patience. IAP works closely with students through all of these processes.

For more information on study abroad at UW-Madison, check out IAP's website (<http://studyabroad.wisc.edu>) or call 608-265-6329. IAP's offices are on the third floor of the Red Gym.

## INTERNATIONAL INTERNSHIPS

259 Bascom Hall, 500 Lincoln Drive, 608-890-2085

As stated on their website, the International Internship Program (IIP) (<http://internships.international.wisc.edu/>) at UW-Madison identifies, cultivates and promotes high quality internships that:

- Advance the professional training of UW-Madison undergraduate students.
- Foster global competency.
- Reinforce academic learning through practical application.

Students can pursue international internships during the summer months, as well as during the semester, if allowed by the student's academic program. IIP offers both in-person and virtual internships with organizations and companies outside of the U.S. If traveling to do an internship is not an option at the moment, make sure to review the virtual internship options that are available.

IIP advises undergraduates on all aspects of an international internship experience, which include:

- Internships search strategies and considerations
- Applications
- Academic Credit
- Funding
- Visas
- International health and travel insurance

The office maintains a number of resources, including an IIP Database of international internships that have been cultivated for UW-Madison students and a number of guides to help students navigate participation in an international internship. IIP serves as a resource to students pursuing international internships prior to departure, during the internship, and upon return. Advisors work closely with both students and program sites to ensure that students have a quality experience.

## UNDERGRADUATE RESEARCH

UW-Madison is a research-rich environment and students are encouraged to participate in the research activities of our world-class faculty and staff. Here are some pathways students use to get involved with research:

**1) Apply to a structured program.** Some students get involved in research through a specific program (<https://research.wisc.edu/information-for-undergraduate-students/>) designed to connect undergraduate students to research. This program may be a scholarship program, or simply provide funding to work on a guided research project. It may provide mentoring related to research methodology and/or require students to enroll in a course for credit. An example of such a program is the Undergraduate Research Scholars (<https://urs.ls.wisc.edu/>), one of the more popular options available to School of Education students.

The Undergraduate Research Scholars program (URS), 716 Langdon Street, 608-890-3696, is dedicated to enhancing the academic experience of UW-Madison students by providing first and second year undergraduates with opportunities to earn credit for participating in the research and creative work with UW-Madison faculty and staff. The program has been designed to include partnerships between students and mentors, seminars on research-relevant issues, and practice in research/artistic presentations. The many benefits of the program are found in the fluid interaction between these activities. Please refer to the website (<https://urs.ls.wisc.edu/>) for more information.

**2) Seek out research opportunities.** Many students take the initiative and seek out research opportunities on their own. The School of Education

Career Center (<http://careercenter.education.wisc.edu/>) can provide help with writing an inquiry email. Here are a few ways to conduct this search:

- The Wisconsin Discovery Portal (<https://discoveryportal.org/default.aspx>) is a searchable directory of more than 3,000 researchers at UW–Madison. It provides easy access to information about research interests, publications, patents and more.
- Find information about undergraduate research and fellowship opportunities on the UW Research (<https://research.wisc.edu/information-for-undergraduate-students/>) website.
- Find helpful information about undergraduate research experiences in science on the BioCommons (<https://biology.wisc.edu/undergraduate-research/>) website and the WISCIENCE (<https://wiscience.wisc.edu/research-mentor-training/#undergrad>) website.
- Find a listing of labs on the Wisconsin Center for Education Research (<https://www.wcer.wisc.edu/research/>) and departmental websites. The lab descriptions often contain contact information for students interested in getting involved in the lab's activities. The Kinesiology department (<https://kinesiology.education.wisc.edu/research/>) and the Communication Sciences and Disorders department (<https://csd.wisc.edu/research/>) are two good examples of how this information is shared. Many School of Education students participate in research through the Department of Educational Psychology.
- The Student Jobs (<https://studentjobs.wisc.edu/>) website lists some research opportunities.
- Read the online bios of professors to learn about their areas of research. Send an email inquiry. The Center for Pre-Health Advising (<https://prehealth.wisc.edu/research-opportunities/>) has a helpful email template you may use.
- Ask the professor or TA in a class if they know of any opportunities to become involved with research.

3) **Participate when enrolled in a course.** Some courses have research opportunities built into the course itself. For example:

- Biology 152 has provided students with an option to participate in a mentored research opportunity.
- Students can serve as research participants to earn extra credit in their courses. Students enrolled in Educational Psychology courses, for example, are often provided with such an opportunity.
- Some professors will announce research opportunities through email to their students.

## OFFICE OF EQUITY, DIVERSITY, AND INCLUSION

145 Education Building, 1000 Bascom Mall, 608-265-6139

The University of Wisconsin–Madison School of Education seeks to promote equity, diversity, and inclusion by reducing barriers to access, increasing the demographic diversity of our faculty, staff, and students, and encouraging scholarship, teaching and service that embraces and engages the full measure of the diversity of our society. The School of Education recognizes that our desire to be an unbiased and inclusive academic community is ongoing and involves shared commitment, responsibility, action and accountability. We believe that diversity, equity,

inclusion, and excellence, the four essential pillars of inclusive excellence, build upon our scholarship and our reputation as an excellent educational institution.

The Office of Equity, Diversity and Inclusion (OEDI) (<https://education.wisc.edu/about/diversity-inclusion/>) provides and promotes programs and initiatives that establish and support a culture of academic and inclusive excellence in the School of Education. OEDI promotes initiatives that recruit, retain, and support the success of historically marginalized students, faculty, and staff, leveraging individual and collective assets to lead in the arts, health, and education fields. OEDI promotes a community of scholars, practitioners, and collaborators within the School that enrich the quality of life for *all* our faculty, staff, and students, as well as local communities and communities abroad.

OEDI houses programs that serve students at multiple levels. Some of our programs include:

- **Summer Education Research Program (SERP):** The Summer Education Research Program (SERP) is a 10-week residential program for undergraduate students interested in pursuing graduate degrees in the School of Education. SERP Scholars, as a part of the Summer Research Opportunities Program (SROP), conduct research projects under the supervision of School of Education research mentors. In the process, they engage in cutting-edge research in their chosen fields and present their final projects to faculty members, peers, and the broader university community. SERP Scholars also participate in workshops and seminars to help ensure they are prepared for both the application process to graduate school and for the rigors of the graduate student experience itself. As part of SERP, participants also receive a competitive stipend for their work.
- **Education Graduate Research Scholars (Ed-GRS):** The Education Graduate Research Scholars Program (Ed-GRS) is a graduate fellowship program and research community which provides funding and a broad support system to graduate students who are either first generation students or from underrepresented backgrounds. Ed-GRS Fellows participate in a variety of discussions and workshops that prepare them to successfully navigate the graduate school experience and beyond, including discussions regarding the job search process and assuming a role as a research or faculty member after graduation. Fellows are also offered a number of special opportunities to connect with faculty, research staff, and peers throughout the School of Education to help them build a sense of supportive community.
- **Summer College Access Program in Education (CAPE):** CAPE is a free two-week summer experience that allows rising high school seniors to explore potential majors in the School of Education. Participants live on campus as enrolled students while taking a 2-credit course in one of the School's majors, covering Education, Health, or the Arts. Courses are led by world-class instructors who are experts in their fields. The CAPE curriculum also includes college preparatory seminars focusing on admissions, financial aid, and college life.
- **Student Affinity Groups:** OEDI helps support affinity groups designed to help underrepresented student populations establish a sense of community. The groups convene both to discuss topical issues and for simple fun social outings. If you would like to participate in an existing group or to help launch a new one, please reach out to our office for more information.

Students are encouraged to email [oedi@education.wisc.edu](mailto:oedi@education.wisc.edu) with any questions regarding the Office or any of its programs.

## COUNSELING PSYCHOLOGY TRAINING CLINIC

The Counseling Psychology Training Clinic (CPTC) (<https://counselingpsych.education.wisc.edu/clinic-and-outreach/cptc/>) is an award-winning training clinic run by the School of Education's Department of Counseling Psychology. The clinic provides high-quality, cost-efficient, and multiculturally competent psychological and mental health services to UW-Madison students and members of the community. Clinicians assist individuals with a variety of concerns including:

- Depression
- Anxiety
- Relationship issues
- Family concerns
- Trauma
- Eating disorders
- Sexual orientation/identity
- Sexuality
- Culture/ethnicity
- Poor concentration
- Grief
- Gender issues
- Anger
- Counseling for gifted and talented students

Fees for counseling services are on a sliding scale determined by income.

## TEACHER EDUCATION CENTER

L139 Education Building, 608-262-2997

The Teacher Education Center (<https://tec.education.wisc.edu/>) supports all prospective, current, and former teacher education students across the UW-Madison campus. The Center highlights the benefits, crucial importance, and real joys of choosing teaching as a career. Our student supports are designed to promote success and cultivate leadership. Specifically, we coordinate the Wisconsin Teacher Pledge student financial support program, assist students to achieve and document mastery of teacher education standards, and facilitate all required field experiences. The Teacher Education Center also oversees the statutory requirements for our teacher education programs, including Act 31, which ensures that all preservice teachers learn about the history, culture, and tribal sovereignty of Wisconsin's American Indian communities. The Teacher Education Center is the main point of contact for school district partners, cooperating teachers, and the Wisconsin Department of Public Instruction. At the TEC, we cultivate a community of inquiry and leverage our shared resources to help prepare the excellent educators our Wisconsin PK-12 schools, families, and students deserve.

## MERIT (MEDIA, EDUCATION RESOURCES, AND INFORMATION TECHNOLOGY)

301 Teacher Education Building, 608-263-4750

MERIT (<https://merit.education.wisc.edu/>) offers information and technology services to the School of Education and UW-Madison community partners. MERIT is designed as a collaborative and comprehensive cluster of service and support for the School of Education, the UW-Madison and beyond. Staff play an active role in the design and implementation of programs which connect the K-12 community to UW-Madison.

Some of our services include evaluation and selection of tools for delivery of content, instructional design and consulting for development of online learning, library services and collections to support practicing teachers (including equipment loans), workshops and instructional support aimed at adoption of new tools, instructional technologies and information literacy.

## COOPERATIVE CHILDREN'S BOOK CENTER (CCBC)

401 Teacher Education, 608-263-3720

The CCBC (<https://ccbc.education.wisc.edu/>) is a library of the School of Education that provides education students, faculty, and staff with a noncirculating collection of children's and adolescent literature. The CCBC also serves other adults on campus and across the state who are interested in literature for the young, including Wisconsin teachers and school and public librarians.

This nationally unique library is the primary resource on campus and elsewhere for contemporary books published for children and young adults from preschool through high school ages. CCBC resources include extensive reference materials about literature for the young and a wide range of books for children and adolescents, including a book examination collection of new and recently published books, a comprehensive collection of recommended contemporary books, and historical literature from the 20th century. The CCBC is nationally known for its services related to intellectual freedom and advocacy for diversity in children's and young adult literature. Each year the CCBC compiles and releases statistics documenting the number of children's and young adult books published by and/or about Black, Indigenous, and People of Color (BIPOC), and additional aspects of identity including disability, LGBTQ+, and religion.

As a library of the School of Education, the CCBC is committed to being a vital part of the teacher education experience on campus. The CCBC's noncirculating collection provides immediate access to a wide range of literature for the young. CCBC librarians are available to meet with education students to help them identify children's and adolescent literature to fulfill class assignments, as well as to use in practicum and student teaching classrooms. Librarians are also available to meet with faculty and teaching assistants to discuss children's and young adult literature as it relates to the courses they are teaching.

The CCBC website (<https://ccbc.education.wisc.edu/>) provides full-text access to many national children's and young adult literature awards and recommended lists as well as specialized bibliographies from CCBC staff. The CCBC offers special events throughout the academic year that provide opportunities to hear from authors and illustrators, as well as to interact with others who are interested in books for children and teens.

## HONORS

### DEAN'S LIST

Students have at least a 2.5 cumulative GPA and 3.5 or higher for the semester. Students must have received no incompletes in graded courses, no unreported grades, or end-of-semester academic actions for the semester. Credit/no credit and pass/fail courses are not considered in meeting the requirements for the Dean's List.

### GRADUATING WITH HONORS AND GRADUATING WITH DISTINCTION

Undergraduate students are invited to wear an honors stole at graduation, representing **Graduating with Honors**, if they have indicated they expect to graduate at the conclusion of the current semester, have a cumulative GPA that places them in the top 20% of students expecting to graduate in their school/college, and have earned at least 60 credits in residence at UW–Madison. Credits in progress in the current semester count toward the 60 credit requirement.

**Graduating With Distinction** is a separate calculation and is posted to the undergraduate student's transcript after all grades and degrees have been recorded. Students qualify for the Distinction notation if they have received their degree, have a cumulative GPA that places them in the top 20% of degree recipients in their school/college, and have earned at least 60 credits in residence at UW–Madison.

### HONORS COLLABORATION WITH THE COLLEGE OF LETTERS & SCIENCE

The School of Education does not currently offer an Honors degree, with the exception of Honors in the Theatre and Drama major. However, through a collaboration between the School of Education and the College of Letters & Science (L&S), students in the School of Education may participate in the L&S Honors Program and have these achievements posted on their transcript.

Three L&S Honors options may be completed by School of Education students.

**L&S Honors in the Liberal Arts (HLA).** Students pursuing Honors in the Liberal Arts complete Honors courses in broadly distributed subjects from the humanities, social sciences, and natural sciences. Through Honors coursework, students select enriching academic opportunities and build connections with faculty throughout the completion of their degree.

Courses taken for Honors can also be applied toward other degree requirements. For example, of the 24 required Honors credits

- At least 6 of the credits must be in courses designated as Humanities (including Literature)
- At least 6 of the credits must be in courses designated as Social Science
- At least 6 of the credits must be in courses designated as Biological, Physical, or Natural Science

These requirements completely overlap with the School of Education liberal studies requirements.

**Honors in the Major (HM).** Students completing an *additional* major housed in the College of Letters and Science may choose to complete the Honors requirements of this major. Honors in the Major requirements vary by program, but typically include a cumulative gpa of at least 3.3, a minimum major gpa, Honors coursework in the major, and successful completion of a two-semester senior Honors thesis or other capstone experience.

If Honors courses overlap with School of Education requirements, they can count in both areas.

**Comprehensive Honors (both HLA and HM).** Comprehensive Honors, the highest level of Honors achievement, is awarded to students who are admitted to, and complete the requirements for both Honors in the Liberal Arts and Honors in the Major.

Full details of requirements, application procedures and policies are available in the Guide (p. 379) and the program's website (<http://www.honors.ls.wisc.edu>). Students with questions about how L&S Honors connects with School of Education programs and requirements should consult both L&S Honors and School of Education advisors to plan a course of study.

## WISCIENCE

### WISCIENCE SUPPORT FOR STEM UNDERGRADUATES

At WISCIENCE, the Wisconsin Institute for Science Education and Community Engagement, we build and support communities of STEM learners. We deliver courses and programs in STEM disciplines that develop knowledge and skills for success in STEM; build identities and confidence; provide professional development and engagement opportunities in community engagement, leadership, and research in STEM.

Exploring Biology (<https://wiscience.wisc.edu/Exploring-Biology/>) (INTEGSCI 100): This lecture/discussion course is designed to help first-year students explore topics, research, careers, and campus opportunities in the biosciences. It fulfills CALS seminar requirements and counts as a Biological Science Breadth credit. *2 credits*

BioHouse Seminar (<https://wiscience.wisc.edu/BioHouse-program/>) (INTEGSCI 110): This seminar creates a formal space for residents of UW–Madison's 10th learning community to learn about life science and the Wisconsin Idea. *1 credit*

Exploring Service in STEM (<https://wiscience.wisc.edu/Exploring-Service/>) (INTEGSCI 140): Students learn about campus–community partnership and outreach in STEM. *1 credit*

Exploring Research in STEM (<https://wiscience.wisc.edu/course/exploring-research-science-course/>) (INTEGSCI 150): This seminar is designed to help students learn research processes and the skills necessary for success with academic programs or careers in research. *1 credit*

Exploring Discipline-based Leadership and Mentoring (<https://www.wiscience.wisc.edu/discipline-based-leadership/>) (INTEGSCI 230): This course prepares STEM students for various peer leadership positions on campus. As part of a supportive community, students develop knowledge and skills related to leadership, educational equity, and diversity and inclusion in STEM. *2 credits*

Service with Youth in (<https://wiscience.wisc.edu/Engage-Children/>) **STEM Series** (INTEGSCI 240 and INTEGSCI 341): Integrated Science 240 prepares students to work with community partners and lead elementary after-school science clubs, and to critically reflect on links between campus and community culture. Integrated Science 341 is a practicum that allows students to build upon this experience by continuing to lead after-school science clubs. *2 credits per semester*

Entering Research Series (<https://wiscience.wisc.edu/Entering-Research/>) (INTEGSCI 260 and INTEGSCI 261): This two-semester series is designed to be taken while undergraduates are engaged in mentored research to help them build a meaningful and productive experience in the lab. *1 credit per course*

Special Topics (<https://wiscience.wisc.edu/secrets-science/>) (INTEGSCI 375): Our faculty offers a variety of topics allowing undergraduates to delve into a variety of STEM topics like the "Secrets of Science." *1-3 credits*

WISCIENCE also offers customized options for undergraduates with independent study and internship opportunities available.

## SUPPORT FOR STEM GRADUATE STUDENTS AND POSTDOCS

WISCIENCE provides cross-campus programs and services to STEM graduate students and postdoctoral scholars.

INTEGSCI 605 Scientific Teaching for TAs: This course aims to help new TAs gain skills in scientific teaching to be effective and efficient in their roles. TAs get just-in-time support for their TA experience and apply their knowledge of research-based teaching approaches to the courses they are currently teaching.

Scientific Teaching Fellows Program (<https://wiscience.wisc.edu/WPST-program/>): A year-long program for graduate students and postdocs in the biosciences or connected fields. Through training and practical teaching experience, Fellows learn about and develop innovative and effective ways to teach science.

Code	Title	Credits
INTEGSCI 650	College Science Teaching	
INTEGSCI 750	Instructional Materials Design for College Science Teaching	
INTEGSCI 850	Mentored Practicum in College Science Teaching	

INTEGSCI 660 Research Mentor Training Practicum: Offered in collaboration with the Delta Program, our mentor training is based on the Entering Mentoring curriculum and gives participants time to reflect and build the tools necessary for a successful mentor/mentee relationship.

STEM Public Service Fellows Program (<https://wiscience.wisc.edu/service/public-service-fellows/>): This program is a three-semester professional development program for graduate and postdoc students in STEM who care about the social impact of their work.

Code	Title	Credits
INTEGSCI 640	Public Service in STEM	
INTEGSCI 740	Community Relationships and Materials Development in STEM Public Service	
INTEGSCI 840	Mentored Practicum in STEM Public Service	

## SUPPORT FOR STEM FACULTY AND STAFF

WISCIENCE provides cross-campus programs and workshops that bring together STEM faculty and staff to support the University's strategic goal of excellence in education.

Advancing Research Mentoring Practice (<https://wiscience.wisc.edu/faculty-staff/advancing-faculty-mentoring-practice/#overview>)

## SCIENCE OUTREACH AND COMMUNITY ENGAGEMENT

WISCIENCE initiates and supports outreach efforts to improve K-12 science education, prepare future science undergraduates, and encourage general public engagement with the natural sciences.

### Outreach in Science at WISCIENCE

Science Alliance (<https://science.wisc.edu/science-alliance/>)

### Beyond the Classroom

BioHouse (<https://www.housing.wisc.edu/residence-halls/learning-communities/biohouse/>)

BioCommons (<https://wiscience.wisc.edu/biocommons/>)

WISCIENCE Peer Leaders (<https://wiscience.wisc.edu/IMPACT-program/>)

## CONTACT INFORMATION

WISCIENCE  
[www.wiscience.wisc.edu](http://www.wiscience.wisc.edu) (<http://www.wiscience.wisc.edu>)

### Wisconsin Institute for Science Education and Community Engagement

[connect@wiscience.wisc.edu](mailto:connect@wiscience.wisc.edu)  
 608-263-0478  
 First Floor, 445 Henry Mall, Madison, WI 53706-1574  
[www.wiscience.wisc.edu/](http://www.wiscience.wisc.edu/) (<http://www.wiscience.wisc.edu/>)

## EDUCATOR LICENSING

## CERTIFICATION PROGRAMS LEADING TO EDUCATOR LICENSING

### TEACHER LICENSING PROGRAMS

- Art Education - Grades K-12
- Communication Sciences and Disorders (Speech-Language Pathology) - Grades K-12

- Elementary Education
  - Kindergarten – 9<sup>th</sup> Grade with optional minors in Early Childhood Birth through Grade 3, and K-12 English as a Second Language
  - Elementary Education Kindergarten – 9<sup>th</sup> Grade/Special Education Kindergarten – 12<sup>th</sup> Grade Dual Certification
- Health – Grades K-12
- Music Education – Grades K-12
- Physical Education – Grades K-12
- School Library Media Specialist – Grades K-12
- Special Education
  - Early Childhood Special Education – Birth through Grade 3
  - Special Education Cross Categorical Grades K-12
  - Early Childhood Special Education/Special Education Cross Categorical K-12 Dual Certification (Birth-Grade 12)
  - Elementary Education Kindergarten – 9<sup>th</sup> Grade/Special Education Kindergarten – 12<sup>th</sup> Grade Dual Certification
- Secondary Education
  - English Grades 4-12/English as a Second Language Grades K-12
  - Mathematics Grades 4-12/English as a Second Language Grades K-12
  - Science Grades 4-12/English as a Second Language Grades K-12
  - Social Studies Grades 4-12/English as a Second Language Grades K-12
- World Language Education – Grades K-12
  - License will be awarded in a specific language

- B.S.–Art Education (<https://guide.wisc.edu/undergraduate/education/art/art-education-bs/>)
- Bachelor of Fine Arts (BFA) (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/>) and Bachelor of Fine Arts (BFA) with Graphic Design option (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/art-graphic-design-bfa/>)

### Undergraduate Certificates

- Certificate in Art Studio (<https://guide.wisc.edu/undergraduate/education/art/art-studio-certificate/>)
- Certificate in Graphic Design (<https://guide.wisc.edu/undergraduate/education/art/graphic-design-certificate/>)

The Department of Art conducts an exemplary experimental undergraduate program emphasizing the importance of a broad background in the study and practice of visual art and design, liberal arts, and knowledge of art and design movements throughout history.

The nationally and internationally recognized faculty of visual artists and designers provides a stimulating educational environment to prepare students for careers in a broad array of creative fields and/or graduate study. The program also supports and encourages the development of a visually and culturally literate community.

The art department offers two professional programs, Art and Art Education. Art majors may pursue either the Bachelor of Science degree (p. 1585) or the Bachelor of Fine Arts degree (p. 1595). Art majors wanting to complete a strong emphasis in graphic design may pursue either the Bachelor of Science: Graphic Design (<https://guide.wisc.edu/undergraduate/education/art/art-bs/art-graphic-design-bs/>) or Bachelor of Fine Arts: Graphic Design (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/art-graphic-design-bfa/>) options. Art Education majors (p. 1575) receive the Bachelor of Science–Art Education degree and eligibility to apply for licensure to teach in both elementary and secondary schools. Entrance requirements vary for each program. All degree programs are accredited by the National Association of Schools of Art and Design (NASAD).

## SUPPLEMENTARY TEACHING LICENSING PROGRAMS

- Adaptive Physical Education
- Bilingual/Bicultural Education
- English as a Second Language (available with concurrent completion of relevant Elementary or Secondary certification program; add-on option for previously certified teachers closed to new admissions.)
- Reading Teacher

## ADMINISTRATOR LICENSING PROGRAMS

- Superintendent
- Principal
- Director of Instruction
- Director of Special Education and Pupil Services
- Reading Specialist

## PUPIL SERVICES LICENSING PROGRAMS

- School Nurse
- School Psychologist
- School Social Worker

# ART

### Undergraduate Degrees

- B.S.–Art (<https://guide.wisc.edu/undergraduate/education/art/art-bs/#requirementstext>) and B.S.–Art with Graphic Design option (<https://guide.wisc.edu/undergraduate/education/art/art-bs/art-graphic-design-bs/>)

## DEGREES/MAJORS/CERTIFICATES

- Art Education, B.S. (p. 1575)
- Art Studio, Certificate (p. 1583)
- Art, B.S. (p. 1585)
- Art, BFA (p. 1595)
- Graphic Design, Certificate (p. 1611)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## ART EDUCATION, B.S.

Art education is a perfect choice for students who thrive in creative, collaborative environments. People who choose this meaningful career path love viewing, discussing, and making works of art/design **and** are passionate about engaging others in the artistic process. Art educators help children and adults explore their own creative capacities and discover

the countless contributions visual artists have made to our society, both in the past and at the present time.

UW–Madison’s art education program provides essential preparation for a variety of careers in art education. Students work directly with children and adolescents in both school and community-based field placements in every semester of the program. They study with outstanding art and education faculty in a range of rigorous and engaging studio, art history, curriculum and instruction, educational psychology, and educational policy studies courses, while also connecting with Madison’s vibrant arts community through field trips and service learning.

Graduates of our program earn a Bachelor of Science degree, a career-ready Wisconsin teaching license in K–12 art education, and gain the skills, knowledge, and confidence to teach the visual arts in a variety of school contexts (public and private schools, at the elementary and secondary levels, in the United States and internationally), and in community-based settings such as art museums, ceramic studios, maker spaces, and senior centers. The job market for art educators is incredibly healthy across the nation, and virtually all of our graduates land jobs that match their interests and expertise.

Consult the departmental website (<https://art.wisc.edu/undergraduate/undergraduate-degrees/>) for additional information about art education. Students intending to teach in Wisconsin may be eligible for the Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/>), an opt-in loan forgiveness program for teacher education students.

## HOW TO GET IN

### ART EDUCATION DECLARATION OVERVIEW

Students typically enter UW–Madison as Pre-Art Education students (PAED), spend the first two years completing liberal studies, general education, and foundational studio requirements, and declare Art Education during their sophomore year for their final two years on campus.

On-campus students starting at UW–Madison in other majors can move to Pre-Art Education by completing a Pre-Professional Declaration (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A GPA of 2.75, based on all UW–Madison coursework or the last 60 credits (p. 1545), is required to transfer into Pre-Art Education. It is not necessary to be a Pre-Art Education student before declaring an Art Education major.

### ELIGIBILITY TO DECLARE ART EDUCATION

Art Education currently accepts declarations once a year, from February 1– May 1. The on-campus declaration form is located on the School of Education’s Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page, along with information about the declaration period, deadline, and current eligibility requirements. Students should consult this site prior to submitting a declaration as this information may be modified from one declaration period to the next.

Off-campus students wishing to transfer directly into Art Education should complete the on-campus declaration and must also be admitted to UW-

Madison. See Transfer Students and Students with a Bachelor’s Degree, below.

### ELIGIBILITY REQUIREMENTS:

- Meet with the Art Education advisor Dr. Mary Hoefflerle (email her directly to set up an appointment at [hoefflerle@wisc.edu](mailto:hoefflerle@wisc.edu)) or a School of Education Student Services advisor. Email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) or call 608-262-1651 to schedule an appointment in Student Services. On-campus students can schedule using Starfish (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).
- Earn 40 or more total credits by the end of the semester prior to declaration.
- Complete at least 6 aesthetics credits (such as ART 108, ART 208 and/or art history courses) and 20 studio credits by the end of the declaration semester.
- Earn a minimum 2.75 cumulative GPA based on all college coursework attempted or a 2.75 last 60 credits GPA by the end of the term prior to the declaration semester. This GPA must be maintained at the end of the declaration semester.<sup>1</sup>

1

Last 60 Credits Rule - Two grade point averages may be calculated to determine a candidate’s eligibility to declare. A GPA may be calculated using (1) UW–Madison and all other all transferable college level coursework attempted and (2) the last 60 credits attempted. The higher GPA of these two calculations will be used for determining eligibility. Once declared, students must earn a semester GPA of 2.75 each semester after declaration. More information on this rule is available here (p. 1545).

Students will be provisionally admitted pending the completion of all eligibility requirements by the end of the declaration semester.

### TRANSFER STUDENTS AND STUDENTS WITH A PREVIOUS DEGREE

Transfer students and students who already hold a Bachelor’s degree must be admitted to UW–Madison to enroll in a School of Education program. Admission to the campus has its own application, admission process, and application deadlines; see Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for campus application information.

Students wishing to enter directly into Art Education should complete both the on-campus declaration and the UW–Madison application. All eligibility requirements must be met. Transfers who do not meet the declaration eligibility criteria will be admitted to UW–Madison with the Pre-Art Education designation.

An applicant with a previous undergraduate degree will be admitted to Art Education as a second degree candidate or as a School of Education "Special Student," depending on their academic background. Admission as an Education Special Student indicates that the student has an interest in pursuing teacher certification in Art Education and studied this subject area extensively during their initial degree. A student enrolls in Art Education as a Special Student to complete the requirements that were not taken during the first degree; these are assessed on a case by case basis. Another degree is not awarded for this "certification only" coursework.

Second degree candidates in the School of Education are changing their academic direction and wish to complete a degree that is unrelated to



their first. A large number of credits are usually required to complete the new degree requirements and a second degree is awarded upon its completion; more information is available here (p. 1545).

All off-campus students are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their declaration. Consultations are available in person, virtually, or via telephone; email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) or call 608-262-1651 to schedule an appointment.

## BACKGROUND CHECKS

Pursuant to State of Wisconsin law PI 34.018(2), the School of Education is required to administer a background check on all students entering teacher education programs. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK-12 pupils. Local school districts frequently conduct background checks on teacher education students prior to the start of their in-classroom field work, and the Department of Public Instruction (DPI) will also conduct a background check on each applicant for a Wisconsin educator license.

Students should be aware that background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who has been deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the Teacher Education Center, [tec@education.wisc.edu](mailto:tec@education.wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

## Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

## PROGRAM STRUCTURE

The art education program is divided into five areas of study:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- *Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- *Major* requirements offer an in-depth study of studio art.
- *Professional education* coursework includes an examination of the schools' relationship to our society and the processes by which students grow and learn. The *professional sequence* is a three-semester sequence of art education teaching methods coursework and field experiences in schools.

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the foundations program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<https://figs.wisc.edu/>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<https://art.wisc.edu/media-disciplines/foundations/>) is available on the departmental website.

## AESTHETICS REQUIREMENT

Complete four courses focusing on the history of art and contemporary developments in the visual arts.

Code	Title	Credits
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	4
Select one of the following: <sup>1</sup>		3-4
ART HIST 103	Topics in Art History (world art topics)	
ART HIST 104	The Art of Diversity: Race and Representation in the Art and Visual Culture of the United States	
ART HIST 203	Survey of Asian Art	
ART HIST 205	Global Arts	
ART HIST/ AFROAMER 241	Introduction to African Art and Architecture	
ART HIST/ AFROAMER 242	Introduction to Afro-American Art	
ART HIST 305	History of Islamic Art and Architecture	
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	
ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	
ART HIST/ AMER IND 359	American Indian Art History: Contemporary Issues	
ART HIST 372	Arts of Japan	
ART HIST 375	Later Japanese Painting and Woodblock Prints	
ART HIST 411	Topics in Asian Art	
ART HIST 412	Topics in African and African Diaspora Art History	
ART HIST/ ASIAN 428	Visual Cultures of India	
ART HIST 440	Art and Power in the Arab World	
ART HIST 475	Japanese Ceramics and Allied Arts	
ART HIST 479	Art and History in Africa	

<sup>1</sup>

Additional art history courses addressing arts from underrepresented cultures will be considered. A course may also count for the global perspectives or ethnic studies requirement if it has that designation.

## MAJOR REQUIREMENTS

Students must complete 45 credits of studio art, including the specific requirements below. At least 15 upper-level studio credits must be taken in residence on the UW-Madison campus. Upper-level classes include Art courses numbered 214 and above, excluding ART 236 and ART 338.

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3
ART 222	Introduction to Painting	3-4
ART 306 or ART 336	Relief Printmaking Serigraphy	3-4
ART 214 or ART 244	Sculpture I Art Metal I	3-4
ART 224	Ceramics I	4
Digital Media Elective - select one of the following:		
ART 176	Digital Photography for Non-Art Majors	
ART 309	Digital Art and Code	
ART 346	Basic Graphic Design	
ART 348	Introduction to Digital Printmaking	
ART 409	Digital Fabrication Studio	
ART 428	Digital Imaging Studio	
ART 448	Special Topics (digital media topics only)	

Take additional art electives to reach the minimum of 45 credits

## PROFESSIONAL EDUCATION REQUIREMENTS

Code	Title	Credits
<b>Foundations of the Profession</b>		<b>3</b>
ED POL/ HISTORY 412 or ED POL 300	History of American Education <sup>1</sup> School and Society	3
RP & SE 605	Development, Learning and Education Foundations in Special Education	3
<b>Literacy, Including Reading</b>		<b>3</b>
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
<b>Special Education</b>		<b>3</b>
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	

<sup>1</sup>

Will also fulfill the liberal studies requirement in U.S./European history.

## ART EDUCATION REQUIREMENTS

Code	Title	Credits
ART ED 321	Introduction to Teaching Art	2
ART ED 323	Foundations in Art Education	3
ART ED 324	Methods in Art Education	3
ART ED 327	Practicum in Art Education	6
ART ED 425	Seminar in Art Education	2
ART ED 423	Student Teaching in Elementary Art <sup>1</sup>	5
ART ED 424	Student Teaching in Secondary Art <sup>1</sup>	5

<sup>1</sup>

Must have a minimum 2.75 GPA in Professional Education and Art Education courses to student teach.

## GPA AND OTHER GRADUATION REQUIREMENTS

Requirements are based on UW-Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average in all major course work.
- 2.75 cumulative grade point average in all upper-level major course work. Art courses numbered 214 and above, excluding ART 236 and ART 338, are considered upper-level courses.
- 2.75 in professional education course work (excluding practicum and student teaching).
- Major Residency. Students must complete a minimum of 15 upper-level studio credits in residence on the UW-Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW-Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 120 total credits.

## DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program’s requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p. 1582).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Identify and explore important eras, developments, movements, and theories in historical and contemporary art practice.
2. Identify and analyze the elements and principles of design in the work of other artists and consistently and effectively employ the elements and principles in their own studio work.
3. Develop technical skill, a personal creative practice, and knowledge of the historical and current practices of at least four separate visual art disciplines, including 2D, 3D, 4D, and graphics areas.
4. Examine best practices (historical and contemporary) in art curriculum planning, instruction and assessment, apply knowledge to k-12 curriculum development, and effectively teach art to diverse populations in community and school-based settings.
5. Meet all School of Education Teacher Education Standards and DPI k-12 art licensure requirements (including child development and

learning theories, history of American Education, and the role of art in literacy education).

## FOUR-YEAR PLAN

### Bachelor of Science: Art Education - Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
Communication A or Quantitative Reasoning A		3 Communication A or Quantitative Reasoning A	3
ART 108		3 ART 208	3
ART 102		3 ART 104	3
ART 212		3 ART 107	3
Global Perspectives or Ethnic Studies also meeting Social Studies		3 POLI SCI 104	4
	<b>15</b>		<b>16</b>

#### Sophomore

Fall	Credits	Spring	Credits
Aesthetic Elective also meeting Ethnic Studies or Global Perspectives (whatever requirement is still unmet)		3-4 ART HIST 202	4
ART 214 or 244		4 ART 306 or 336	4
ART 222		4 ART ED 321 (spring only)	2
Liberal Studies Literature course		3 Digital Media Elective	4
		Liberal Studies Science course (One Science course must be Biological, and one Physical)	3
	<b>14</b>		<b>17</b>

#### Junior

Fall	Credits	Spring	Credits
ART 224		4 Studio Elective	4
Liberal Studies Science also meeting Quantitative Reasoning B		3 Studio Elective	4
RP & SE 605		3 ART 508	1
CURRIC 305 (also meets Communication B)		3 ED POL/HISTORY 412 (also meets U.S./European History)	3

ART ED 323 (fall only)	3 Liberal Studies Science with lab	3
<b>16</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>
		<b>Credits</b>
Studio Elective	4 ART ED 423 (spring only)	5
ART ED 324 (fall only)	3 ART ED 424 (spring only)	5
ART ED 327 (fall only)	6 ART ED 425 (spring only)	2
CURRIC/RP & SE 506	3	
<b>16</b>		<b>12</b>
<b>Total Credits 121</b>		

## ADVISING AND CAREERS

### ART EDUCATION ADVISING

Prospective off-campus and on-campus art education students will meet with the art education program coordinator Dr. Mary Hoefflerle, 6241 Humanities Building, 455 North Park Street, hoefflerle@wisc.edu. Students considering art education should contact Dr. Hoefflerle as soon as possible. Pre-declaration advising is conducted by the Department of Art and advisors in the School of Education Student Services office, see below.

The undergraduate art program advisors are located at 6241 Humanities Building, 455 North Park Street. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made by calling 608-262-1660.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently

seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

## ART EDUCATION AND THE WISCONSIN EXPERIENCE

**Teaching Art** - As part of required courses, art education students teach art to children and teens in school and community-based settings in every semester of the program. Some of our most recent partners include:

- The Art Zone at the Madison Museum of Contemporary Art (<https://www.mmoca.org/>)
- Monroe Street Arts Center (<https://www.monroestreetarts.org/>)
- Afterschool art clubs in Madison elementary, middle and high schools
- Fieldwork experiences in private schools like Edgewood, Wingra, Eagle and Madison Country Day, and public schools in rural, suburban and urban districts.

**Learning from Current Practitioners** - In all field placements art education majors receive support, guidance and advice from veteran art teachers and university supervisors. They meet art teachers who lead special-topic workshops such as *Adaptive Art*, *Building a High School Ceramics Program*, and *Integrating Digital Media in Traditional 2D Art Classes*, or teaching artists who lead studio-centric workshops such as *Monoprint*, *Puppetry*, and *Comics*, in which in-service art teachers join them as fellow learners.

**Paid Work Experience** - Art education majors also find valuable, paid work experience in the community as teaching assistants or lead art instructors in organizations like the Wheelhouse Studios (<https://union.wisc.edu/events-and-activities/open-art-studio-and-classes/>), the Chazen Museum of Art (<https://chazen.wisc.edu/>), Little Picassos (<https://www.littlepicassosart.com/>) (an art enrichment program for low-income families), Madison School and Community Recreation (<https://www.msccr.org/>), Prairie Music & Arts, (<https://prairiemusic.org/>) and provide one-to-one art tutoring.

**Student Organizations** - Art education majors join a wide variety of student organizations on campus. Art-related organizations (<https://art.wisc.edu/art-at-uw/student-orgs/>) include the Mad Gaffers (glass blowing), Fresh Hot Press (printmakers), and the Chazen Art Museum Ambassadors. Aspiring Educators of Wisconsin (<https://www.facebook.com/AspiringEducatorsUWMadison/>) is an active organization for pre-service teachers in all areas of education.

**Exhibiting Artwork** - Art education majors also have ample opportunity to submit their artwork for consideration for art exhibitions, scholarships and competitions.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students interested in certification must, in addition to completing UW-Madison's program requirements, also complete Wisconsin statutory requirements related to teacher education and certification requirements established by the Wisconsin Department of Public Instruction. Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. For additional certification requirements and information

about applying for a license, see the Teacher Education Center (<https://tec.education.wisc.edu/current-students/>).

## APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### LICENSING LEVELS

The following licensing options will be offered at UW-Madison.

- The core Elementary Education licensing level will be Kindergarten through Grade 9. Early Childhood, and English as a Second Language Kindergarten through Grade 12, can be added to the K-9 option.
- Special Education will offer licensing at the Early Childhood level, Kindergarten through Grade 12 level, and a program option that licenses in both Early Childhood Special Education and K-12 Special Education. The new Elementary Education and Special Education degree certifies students in both Special Education Kindergarten through Grade 12 and Elementary Education Kindergarten through Grade 9.
- Secondary Education program areas will license in their subject area Grades 4 through 12, and also in English as a Second Language Kindergarten through Grade 12.
- World Language Education program areas will license at the Kindergarten through Grade 12 level.
- Students in special fields such as Art, Music, and Physical Education will be licensed at the Kindergarten through Grade 12 level
- Health and Library Media Specialist both license at the Kindergarten through Grade 12 level.
- Communication Sciences and Disorders (Speech-Language Pathology) will license at the K-12 level.

### WISCONSIN STATE LICENSING

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo/>). A background check will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission/>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW-Madison teacher certification students, the endorsement will come from the School of Education, L139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that

1. all certification requirements are met;
2. student teaching (following the school district calendar) is completed;
3. final grades are posted and reviewed;
4. the degree is “posted” by the registrar’s office (one to four weeks after graduation); and
5. a recommendation for certification is received from the program faculty.

The Wisconsin Department of Public Instruction may require an additional 6 to 8 weeks for license processing.

## LICENSING OUTSIDE OF WISCONSIN

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website (<https://education.uky.edu/accreditation/certification/states/>) that provides links to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state–approved licensing program has been completed. These forms should be sent to the School of Education Teacher Education Center at L139 Education Building, 1000 Bascom Mall, Madison, WI 53706, or by email ([educatorlicensing@education.wisc.edu](mailto:educatorlicensing@education.wisc.edu)) to be completed. You must complete your personal information on the form before sending it to the Teacher Education Center. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must also be completed before sending the form to the Teacher Education Center.

## PROFESSIONAL CERTIFICATION/ LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/ Licensure in the following states:

Colorado, Illinois, Minnesota, Wisconsin

### The requirements of this program do not meet Certification/ Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/ Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming;

District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ART STUDIO, CERTIFICATE

The Certificate in Art Studio allows students from across campus, regardless of their major or degree program, to engage in a structured, meaningful art studio experience. Students should work closely with their major advisor to see how the certificate requirements can fit into their degree plan. **Note: Most art courses do not carry the LAS (L&S) designation.**

This certificate was designed for students who may not have professional ambitions in the arts, but still have an interest in a special discipline and want to develop their talents; previous coursework in art is not required.

The program provides a course of study in four focus areas: 2D, 3D, 4D, or photography. Students select one of these options and complete the courses required of this area of study.

For each option, certificate students complete one course focusing on the historical context of art, one or two courses that provide a foundation for their chosen area, and two related electives that allow for the exploration and development of their skills specific to the area of focus.

Students interested in graphic design and typography should consider the Graphic Design Certificate (<https://guide.wisc.edu/undergraduate/education/art/graphic-design-certificate/>), also offered through the Department of Art.

The Art Studio certificate may also appeal to individuals who have already completed a Bachelor’s degree in art, but now want to complete an emphasis in a different discipline; see the Nondegree/Visiting Student Guide (<https://guide.wisc.edu/nondegree/>). In these instances, the student will work closely with an advisor in the Department of Art to substitute higher-level courses for the foundational studio courses.

## HOW TO GET IN

### DECLARATION PROCESS

Students intending to complete the Art Studio certificate can find the declaration form on the School of Education's Certificate Programs page. The declaration for this certificate program can be submitted at any time during the academic year.

### ELIGIBILITY

Undergraduate students in good academic standing with a cumulative GPA of 2.50 or higher, who are not participating in the Art–B.S., Art Education, or Art–BFA degree programs, may declare this certificate. University Special students who have already completed a bachelor’s degree are also eligible to complete this certificate.

## REQUIREMENTS

The studio art certificate may be completed by any UW–Madison undergraduate student who is not a declared art major.

Select a course of study in one of four focus areas: 2D, 3D, 4D (time-based), or Photography, and complete the required courses. For each option, certificate students complete one course focusing on the historical context of art, one or two courses that provide a foundation for their chosen area, and two or three related electives that allow for the exploration and development of their skills.

The certificate requires a minimum total of 17–18 credits, depending on the selected area. A minimum of 12 of these credits must be completed in residence. It is possible to complete the certificate in three semesters, making it a viable option for most students, including transfers.

## HISTORICAL CONTEXT OF ART/DESIGN

Students in all certificate focus areas must complete **one** of the following:

Code	Title	Credits
ART 100	Introduction to Art	3
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART HIST 206	Survey of Photography: 1839 to 1989	3–4

## FOCUS AREAS

### FOCUS ONE: PAINTING, DRAWING, PRINTMAKING

Ideal for the novice artist, as well as for students who want to develop previous skill in the creation of two-dimensional art. Students interested in pursuing this focus area can find more information about painting (<https://art.wisc.edu/media-disciplines/drawing-painting/>), drawing, (<https://art.wisc.edu/media-disciplines/drawing-painting/>) and printmaking (<http://art.wisc.edu/art/academics/media/printmaking/>) on the art department's website.

Painting, Drawing, Printmaking Requirements		
Code	Title	Credits
<b>Foundations</b>		
Complete one of the following:		
ART 102	Two-Dimensional Design	3
ART 112	Drawing I	3
ART 212	Drawing Methods & Concepts (preferred)	3
<b>Development</b>		
Complete a minimum of three courses from the list.		
ART 222	Introduction to Painting	4
ART 232	Life Drawing I	4
ART 242	Watercolor I	4
ART 302	Color	4
ART 306	Relief Printmaking	4
ART 307	Making Comics I	4

ART 312	Intermediate Drawing I	4
ART 316	Lithography	4
ART 322	Intermediate Painting I	4
ART 326	Etching	4
ART 332	Life Drawing II	4
ART 336	Serigraphy	4
ART 342	Watercolor II	4
ART 348	Introduction to Digital Printmaking	4
ART 446	Artists' Books	4
ART 452	Intermediate Painting: New Figuration I	4
ART 506	Advanced Relief Printmaking	4
ART 507	Making Comics 2	4
ART 512	Advanced Drawing I	4
ART 516	Advanced Lithography	3
ART 522	Advanced Painting I	4
ART 526	Advanced Etching/Intaglio	4
ART 532	Advanced Life Drawing I	4
ART 536	Advanced Serigraphy	4
ART 542	Advanced Watercolor I	4
ART 552	Advanced Painting: New Figuration II	4
ART 612	Advanced Drawing II	4
ART 622	Advanced Undergraduate Painting Workshop	3
ART 632	Advanced Life Drawing II	4
ART 636	Computer Augmented Printmaking	4
ART 642	Advanced Watercolor II	4

### FOCUS TWO: 3D FORMS

Ideal for the novice artist, as well as for students who want to develop previous skill in the creation of three-dimensional art. Students interested in pursuing this focus area can find more information about ceramics (<https://art.wisc.edu/media-disciplines/3d/>), glass and neon (<https://art.wisc.edu/media-disciplines/3d/>), metals/metalsmithing (<https://art.wisc.edu/media-disciplines/3d/>), sculpture/installations (<https://art.wisc.edu/media-disciplines/3d/>), and wood (<https://art.wisc.edu/media-disciplines/3d/>) on the art department's website.

3D Forms Requirements		
Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 104	Three-Dimensional Design	3
ART 214	Sculpture I	4
<b>Development</b>		
Complete a minimum of two courses from the list.		
ART 224	Ceramics I	4
ART 244	Art Metal I	4
ART 314	Sculpture II	4
ART 324	Ceramics II	4
ART 334	Wood Working	4
ART 343	Metal Fabrication and Welding in Sculpture	4
ART 354	Glassworking	4
ART 409	Digital Fabrication Studio	4



ART 414	Art Foundry	3
ART 454	Neon: Light as Sculpture	4
ART 514	Advanced Sculpture Workshop 1	4
ART 521	Installations and Environments	4
ART 534	Advanced Wood Working	4
ART 544	Advanced Art Metal I	4
ART 554	Advanced Glassworking	4
ART 614	Advanced Sculpture Workshop 2	3-4
ART 624	Advanced Ceramics II	4
ART 644	Advanced Art Metal II	4

### FOCUS THREE: 4D-DIGITAL, TIME-BASED, PERFORMATIVE OR SOCIAL PRACTICE

Ideal for the novice artist, as well as for students who want to develop previous skill with new art genres. Students interested in pursuing this focus area can find more information about digital media and animation (<https://art.wisc.edu/media-disciplines/4d/>), (<https://art.wisc.edu/media-disciplines/4d/>) or performance, video, or social practice (<https://art.wisc.edu/media-disciplines/4d/>) on the art department's website.

#### 4D-Digital, Time-based, Performative or Social Practice Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 107	Introduction to Digital Forms	3
<b>Development</b>		
Complete minimum of three courses from list.		
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 348	Introduction to Digital Printmaking	4
ART 393	Internships in Art	1
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 511	Art Performance	3-4
ART 518	Artist's Video	4
ART 528	Digital Interactive Studio	4
ART 529	3D Digital Studio II	4
ART 570	Advanced Topics in 4D Art	4
ART 531	Screen Performance	3-4
ART 636	Computer Augmented Printmaking	4
INTEGART 310	Interdisciplinary Artist in Residence Studio	1-3

### FOCUS FOUR: PHOTOGRAPHY (FILM AND DIGITAL)

Ideal for the novice artist, as well as for students who want to develop previous skill with photography. Students interested in pursuing this focus area can find more information about photography (<https://art.wisc.edu/media-disciplines/printmaking/>) on the art department's

website. ART HIST 206 Survey of Photography: 1839 to 1989 is highly recommended as the historical context course.

#### Photography Requirements

Code	Title	Credits
<b>Foundations</b>		
Complete the following:		
ART 176	Digital Photography for Non-Art Majors	4
<b>Development</b>		
Complete the following:		
ART 376	Photography	4
ART 476	Intermediate Photography	4
ART 576	Advanced Photography	4

## PROGRESS AND COMPLETION REQUIREMENTS

A minimum cumulative GPA of 2.5 must be achieved and maintained across all certificate course work in order to remain in, and successfully complete the certificate. All courses required by the certificate must be taken for a grade; none may be taken on a pass/fail, credit/no credit basis or as an auditor.

At least 12 of the required credits must be completed in residence in the UW-Madison Department of Art. Courses taken in a study abroad program sponsored by UW-Madison do not count toward this residency requirement.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. Correctly identify and explain important eras in historical and contemporary art practice.
2. Develop technical and conceptual skill in studio practice by consistently employing the elements and principles of effective visual art and/or design in their chosen focus area.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## ART, B.S.

The highly ranked Department of Art's degree programs provide creative students with the critical and artistic skills needed to excel in contemporary, multidisciplinary art and design practices. The art curriculum fosters positive collaboration, the creation of innovative and

technically advanced art works, and encourages the sharing of diverse points of view. Students can pair the B.S. Art degree with many different majors on campus in order to work toward specific career goals.

**Degree programs** feature a rigorous foundation program, a set of six courses that students often complete by participating in the popular Contemporary Art & Artists First-Year Interest Group (FIG), before branching out into one or more specialized areas (<https://art.wisc.edu/media-disciplines/>):

- 4D Digital Media
- 4D Video and Performance
- Ceramics
- Drawing/Painting
- Glass/Neon
- Graphic Design
- Metals/Jewelry
- Printmaking/Book Arts
- Photography
- Sculpture
- Wood/Furniture

**The department offers five ways to complete a degree:**

- The Bachelor of Science in Art (<https://guide.wisc.edu/undergraduate/education/art/art-bs/>) degree
- The [Bachelor of Science in Art degree with Graphic Design option](https://guide.wisc.edu/undergraduate/education/art/art-bs-art-graphic-design-bs/) (<https://guide.wisc.edu/undergraduate/education/art/art-bs-art-graphic-design-bs/>)
- The Bachelor of Fine Arts (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/>) degree
- The Bachelor of Fine Arts degree with Graphic Design option (<https://guide.wisc.edu/undergraduate/education/art/art-bfa-art-graphic-design-bfa/>)
- The Bachelor of Science in Art Education (<https://guide.wisc.edu/undergraduate/education/art/art-education-bs/>) degree

**Potential Careers for Artists** include: creative director, content marketing manager, arts coordinator and studio manager, ceramics, glassblowing, metal fabrication, illustration, commercial or fine arts photographer, primary/secondary school art teacher, gallerist, or studio artist. Our graduates also work as community arts organizers, user experience designers, technical assistants for major film companies, jewelry designers and fabricators, book designers, museum preparator and more!

The BFA degree is often selected by students wishing to develop a refined visual art portfolio in preparation for a career as a professional artist or designer, and/or for graduate study. The B.S.-Art degree requires 45 studio art credits, while the BFA requires 72 studio art credits.

All studio art majors begin their undergraduate career in the B.S.-Art program. After completing the foundations and studio breadth coursework, and going through the proper advising steps, students can declare one of the other art programs, such as a BFA or the BFA-Graphic Design Named Option.

The Bachelor of Science in Art Education provides essential preparation for careers in art education. Graduates of the Art Ed program earn a B.S.-Art Education degree, a Wisconsin teaching license in K-12

art education, and gain the skills, knowledge, and confidence to teach the visual arts in public and private schools, at the elementary and secondary levels, and in community settings such as art museums, maker spaces and senior centers.

The Department of Art believes that hardworking students who learn to harness and nurture their creative energies today will be the people influencing progress tomorrow. Come join us!

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The Art-B.S. degree program currently admits on-campus students to begin in the fall, spring, and summer. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Undergraduate Admissions (<https://education.wisc.edu/admissions-aid/undergraduate-admissions/>) page for eligibility requirements prior to submitting an application.

### ENTERING THE SCHOOL OF EDUCATION

#### PROSPECTIVE UW-MADISON APPLICANTS

Prospective applicants to UW-Madison are strongly encouraged to submit a portfolio to the Department of Art for review. Though a portfolio is not required, it does provide the art department an opportunity to make a recommendation on the applicant's behalf to UW-Madison's Office of Admissions and Recruitment. The Office of Admissions and Recruitment makes final determinations regarding the admission status of all applicants. Additional information, including submission guidelines, is available on the How to Apply (<https://art.wisc.edu/undergraduate/undergraduate-application/>) page of the art department's website.

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and off-campus transfers are admitted directly to the Art-B.S. degree program. Students planning on declaring the Art-B.S.: Graphic Design named option should first declare Art-B.S. The successful completion of ART 102 Two-Dimensional Design and ART 107 Introduction to Digital Forms is required to declare the named option. All other on-campus students interested in becoming Art students must follow the application procedures outlined below.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. BFA candidates cannot transfer directly into the Art-BFA degree program; instead, they will be admitted to campus as if pursuing the Art-B.S. degree program (ART classification)

and can apply for the BFA program once enrolled on campus. Transfer students are strongly encouraged to meet with the art department advisor prior to coming to campus; call 608-262-1660 to schedule an appointment. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

coursework indicates coursework for which a grade has been earned.) For more information on this rule, see this link (p. 1545).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## APPLICATION AND ADMISSION

On-campus students should contact an undergraduate advisor in the Department of Art to discuss their interest in pursuing the Art–B.S. degree program. This meeting is required and can be scheduled using Starfish, (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) or by contacting the Department of Art at 608-262-1660. An application to the Art–B.S. degree program will be completed after this meeting.

### CRITERIA FOR ADMISSION

- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- If applying for named option in Graphic Design, successful completion of ART 102 Two-Dimensional Design and ART 107 Introduction to Digital Forms.
- Filing of all required paperwork, including professional program application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) and transcripts. Application must be signed by the art department advisor.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted"

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

#### The School of Education's Liberal Studies

**Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

## PROGRAM STRUCTURE

The bachelor of science (B.S.) degree program in art has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- *Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- *Major* requirements permit in-depth studies of studio art. After taking courses in the Foundations area, students complete coursework in each of the four studio areas: 2D, 3D, 4D, and Graphics. B.S.–Art majors are required to reach an advanced level in at least one studio discipline.
- *Elective* credits to pursue individual areas of interest, such as a second major or additional studio credits. Many B.S.–Art students complete an additional major from the College of Letters & Science. Some use this major to complement their art preparation (e.g., focusing on written communication for an eventual career in advertising), or a subject that complements their interest in art. Students interested in medical illustration, for example, may wish to take courses in the biological sciences. Others select majors that reflect interests completely unrelated to art.

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the Foundations Program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<https://figs.wisc.edu/>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<https://art.wisc.edu/media-disciplines/foundations/>) is available on the departmental website.

## AESTHETICS REQUIREMENTS

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3
ART 208	Current Directions in Art (component of the Foundations Program)	3
Select two additional courses from the following:		8
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	
ART 438	History of Graphic Design and Typography <sup>1</sup>	

<sup>1</sup>

If taken prior to summer, 2018, ART 438 may count toward either the aesthetics or studio requirements, but not both. Effective summer, 2018, it may only count toward the aesthetics requirement. This course is designed for students pursuing graphic design.

## MAJOR REQUIREMENTS

The requirements listed here are effective for students admitted to the program effective summer 2016. Students admitted prior to this

time can find their major requirements listed in previous editions of the *Undergraduate Catalog* and on their DARS reports.

Complete a minimum of 45 studio credits, including the specific coursework below. No more than 58 studio credits will be counted toward the minimum 120 credits required for the B.S. degree. Thus, if a student wishes to graduate with the minimum of 120 credits, 62 of these credits must be "non-studio" coursework.

Major residency requirement: Students completing the B.S. degree must complete at least 24 credits of major studio coursework in residence on the UW-Madison campus.

Art and BFA degree students have priority access to studio courses. Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

## REQUIRED STUDIO FOUNDATIONS COURSES

Complete the following:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

## REQUIRED STUDIO BREADTH COURSES

Select one course in each of the 2D, 3D, 4D, and Graphics areas. Students will also take ART 508 at least once and complete a 500-level or 600-level art studio course in at least one discipline.

### 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4

### 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4

### 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4

ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

## Graphics

Select one of the following:

Code	Title	Credits
ART 306	Relief Printmaking	3-4
ART 316	Lithography	4
ART 326	Etching	4
ART 336	Serigraphy	3-4
ART 346	Basic Graphic Design	4
ART 348	Introduction to Digital Printmaking	4
ART 376	Photography	4
ART 446	Artists' Books	4

## Art Colloquium

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

## Advanced Studio Requirement

Complete a 500-level or 600-level art studio course in at least one discipline. ART 508, ART 608, and ART 699 will **not** fulfill this requirement.

## ELECTIVE STUDIO COURSES

Select elective studio courses (<http://guide.wisc.edu/courses/art/>) to reach the minimum of 45 credits.

## AREAS OF CONCENTRATION

Although a concentration is not required, students may wish to select a sequence of related courses to develop an area of interest. Concentrations in multi-media, 2D studio, 3D studio, and printmaking are just some of the concentrations (<https://art.wisc.edu/media-disciplines/>) listed on the art department's website. Students wishing to concentrate in graphic design should declare the Graphic Design Named Option when eligible..

View as listView as grid

- ART: GRAPHIC DESIGN, B.S. (P. 1593)

## ELECTIVE COURSEWORK

B.S.-Art students must complete additional coursework to reach the minimum 120 credits required for the degree. These students must complete a minimum of 62 non-studio credits. Another way of describing this requirement is that only 13 additional studio credits beyond the required 45 credits can count toward the 120 credits. Students interested in completing more than 58 total studio credits may wish to consider the BFA degree program, which requires at least 72 studio credits.

**Completing an additional major.** Students choosing the B.S.–Art option often also choose to complete an additional major in the College of Letters & Science. Review Academic Policies and Procedures (p. 1545) to find detailed information about declaring an additional L&S major while a student in the School of Education.

**Completing two degree programs.** Students also occasionally choose a second degree in another campus school or college. For instance, students may choose an Art degree program as well as a science degree program in the College of Agricultural and Life Sciences. See Academic Policies and Procedures (p. 1545) for more detailed information about the requirements and the approvals necessary to be permitted to complete dual degrees. **Important note:** Some campus schools/colleges do not permit dual degrees; at the present time this includes the College of Letters & Science and the College of Engineering. These policies do not permit students to complete, for example, an art degree program and a journalism degree program.

Students interested in additional majors or dual degrees should consult carefully with an advisor in the School of Education Student Services office. Students may be referred to the associate dean for additional consultation and approvals.

## GPA AND OTHER GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 2.5 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 2.5 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding ART 236 and ART 338).
- Major Residency: Must complete at least 24 credits of major coursework in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 120 credits to include at least 62 non-studio credits are required for graduation in the Art–B.S. degree program.

### DEGREE AUDIT (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such

as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Learn the fundamentals of art and design through investigation of form, technology and concept within a cohort of like-minded and diverse artists and designers.
2. Develop skills in research, creative problem solving, and professional practices.
3. Expand knowledge of historical, thematic, critical, and theoretical issues as a means of strengthening verbal and visual vocabulary.
4. Demonstrate a broad understanding of distinct concepts and practices in two-dimensional media, three-dimensional media, four-dimensional media, and in a choice of printmaking, photography, or graphic design media.
5. Demonstrate competency at an advanced level in at least one discipline of student’s choice. (Graphic design named option: Generate advanced level competency in graphic design.)

## FOUR-YEAR PLAN

### Bachelor of Science in Art: Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide,

and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with your academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring)	3	Communication A (fall or spring)	3
ART 108	3	ART 208	3
ART 102	3	ART 104	3
ART 212	3	ART 107	3
ART 508	1	ART 508 (recommended)	1
Liberal Studies course work	2-5	Liberal Studies course work	2-5
<b>15</b>		<b>15</b>	

**Sophomore**

Fall	Credits	Spring	Credits
Aesthetics Elective	3-4	Aesthetics Elective	3-4
Two Art Studio Breadth courses from 2D, 3D, 4D or GR categories	8	Art Studio Breadth course from 2D, 3D, 4D or GR categories	4
Quantitative Reasoning A	3	Communication B	3
		Liberal Studies or General Elective course work	4-6
<b>15</b>		<b>15</b>	

**Junior**

Fall	Credits	Spring	Credits
Art Studio Breadth course from 2D, 3D, 4D or GR categories	4	Art Studio Elective course work	4
Art Studio Elective course work	4	Quantitative Reasoning B	3
Ethnic Studies	3	Liberal Studies or General Elective course work	8
Liberal Studies or General Elective course work	4		
<b>15</b>		<b>15</b>	

**Senior**

Fall	Credits	Spring	Credits
Studio Elective course work	3-4	Advanced Studio Elective	4
Liberal Studies, Studio or General Elective course work <sup>1</sup>	11-12	Liberal Studies, Studio or General Elective course work	11
<b>15</b>		<b>15</b>	

**Total Credits 120**

1

At least 62 “non-studio” credits must be taken to complete the B.S. Art degree. Aesthetics courses are considered to be non-studio. No more than 58 studio credits can be applied toward the 120 credits.

**ADVISING AND CAREERS**

**ART DEPARTMENT ADVISING**

Students declared in the B.S.–Art or BFA–Art major (including graphic design named options), as well as potential transfers into art, will meet with Undergraduate Art Program Advisor Matthew Mauk, [mmauk@wisc.edu](mailto:mmauk@wisc.edu), or through [artadvising@education.wisc.edu](mailto:artadvising@education.wisc.edu).

Prospective freshmen and art studio/graphic design certificate students will meet with Prospective Student and Certificate Advisor Mercedes Brandt, [mercedes.brandt@wisc.edu](mailto:mercedes.brandt@wisc.edu), or through [artadvising@education.wisc.edu](mailto:artadvising@education.wisc.edu).

Advisors are located at 6241 Humanities Building, 455 North Park Street.

Current Art majors can schedule an appointment with Matthew online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Certificate students can also use the Starfish app (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/109896>) to schedule an appointment with Mercedes. Appointments can also be made via email or, by calling 608-262-1660. Students are also strongly encouraged to confer with an advisor in the School of Education Student Services office on a regular basis, see below.

**SCHOOL OF EDUCATION ADVISING**

**ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION**

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

## CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Art majors include:** animation, ceramics, glassblowing, metal fabrication, graphic and multimedia design, illustration, videography, photography, teaching, and gallery art. Our graduates also work as community arts organizers, user experience designers, medical imagists, technical assistants for major film companies, jewelry designers and fabricators, book designers, and more.

Students develop important skills that employers look for, including:

- Diverse forms of communication, personal expression and connection
- Collaboration
- Creative problem solving
- Adaptability, agility, and the ability to learn new skills quickly
- Resilience
- Passion for their craft
- Empathy

Applied experiences, including paid internships, apprenticeship programs, career treks, and professional networking events, are available to UW Art students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW–Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW–Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

### ART AND THE WISCONSIN EXPERIENCE

The UW–Madison Art department provides a wide range of opportunities for students on campus and beyond. Available resources include courses that connect with the community, job opportunities, the chance to show work, and the ability to manage campus student organizations.

**Visiting Artists** - The Art department is unique in its ability to bring in weekly visiting artists through the Art Colloquium series. A professional national or international artist comes to campus to provide an artist's talk, studio visits, and general conversation about artmaking with students. Individual courses often bring in visiting artists throughout the semester to provide workshops on unique techniques from those who specialize in particular processes.

**Career Advising and Internships** - The School of Education Career Center (<https://careercenter.education.wisc.edu/>) has a designated advisor for art students who can provide connections with hourly campus employment, internships, and career options after graduation. The Art department offers courses that focus on internships in the arts and many studios hire hourly workers who learn the basics of maintaining an artist's studio space. The BFA capstone course also provides detailed instruction in writing a resume, cover letter, grant proposals, and residency applications.

**Student Organizations** - Student organizations are an excellent opportunity for art majors to establish connections with working artists, host workshops for the community, and to raise funds for travel. Fresh Hot Press (printmaking), AIGA (graphic design), Mad Gaffers (glassblowing), and Art for Change (activism) are just a few of the art-related options (<https://art.wisc.edu/art-at-uw/student-orgs/>). Student organizations are led by undergraduates and graduate students, with several using fundraising throughout the year to attend national conferences. Overall, there are multiple ways for undergraduates to refine their professional and technical skills in relation to their future career goals in the arts through student organizations.



**Exhibiting Artwork** - It is important for any artist to consistently show their work, and the Art Department does its part to provide this professional development to our students. Undergraduates have the opportunity to reserve one of our three large-scale galleries to install their work for documentation and submission of future exhibitions. Students also work with faculty to submit their pieces into galleries throughout Madison, Milwaukee, and nationally. The Art Department works with students in many ways to help promote their work and develop the skills necessary to establish a thriving career in the world of art.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ACCREDITATION

### Accreditation

National Association of Schools of Art and Design (<https://nasad.arts-accredit.org/>)

Accreditation status: Accredited. Next accreditation review: 2025-2026.

## ART: GRAPHIC DESIGN, B.S.

### REQUIREMENTS

As an inherently interdisciplinary practice, graphic design plays an important role at every level of contemporary culture. Graphic design courses deliver skills and expertise that are in demand for all graphic design and related communications fields. Students develop abilities to think critically while working seamlessly across disciplines. In current and future iterations of the field, graphic designers must function as the "fusion" between art, business, engineering, research, and science.

Graduates of the Graphic Design named option programs will have experienced a range of forms and media that provides professional preparation, exhibition experience, as well as the development of unique intellectual and visual voice. Graduating students will also possess the flexibility to adapt to a changing, unpredictable world where the methods of communication will continuously evolve and expand.

The named option requirements listed here are components of the B.S. Art (<https://guide.wisc.edu/undergraduate/education/art/art-bs/#requirementstext>) degree requirements.

## AESTHETICS REQUIREMENTS - GRAPHIC DESIGN OPTION

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3
ART 208	Current Directions in Art (component of the Foundations Program)	3

ART 438	History of Graphic Design and Typography	3
Select one additional courses from the following:		4
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	

## MAJOR REQUIREMENTS - GRAPHIC DESIGN OPTION

Complete a minimum of 45 studio credits, including the specific coursework below. No more than 58 studio credits will be counted toward the minimum 120 credits required for the B.S. degree. Thus, if a student wishes to graduate with the minimum of 120 credits, 62 of these credits must be "non-studio" coursework.

Major residency requirement: Students completing the B.S. degree must complete at least 24 credits of major studio coursework in residence on the UW-Madison campus. All graphic design coursework must be completed in residence.

Art and BFA degree students have priority access to studio courses. Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

## REQUIRED STUDIO FOUNDATION COURSES - GRAPHIC DESIGN OPTION

Complete the following:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

## REQUIRED STUDIO BREADTH COURSES - GRAPHIC DESIGN OPTION

Complete one course in each of the Graphic Design, 2D, 3D, and 4D areas. Students will also take ART 508 at least once and complete a 500-level or 600-level art studio course in graphic design.

### Graphic Design

Code	Title	Credits
ART 346	Basic Graphic Design	4

### 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4

### 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4
ART 454	Neon: Light as Sculpture	4

#### 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

#### VISITING ARTIST LECTURE SERIES - GRAPHIC DESIGN OPTION

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

#### ADDITIONAL STUDIOS - GRAPHIC DESIGN OPTION

Complete 12 Graphic Design elective credits from the following list, **to include at least one 500 or 600 level course.**

Code	Title	Credits
ART 458	Graphic Design for Branding and Identity	4
ART 463	Information Graphics	4
ART 465	Graphic Design for Packaging	4
ART 467	Graphic Design for Posters	4
ART 525	Advanced Typography	4
ART 546	Graphic Design for Publications	4
ART 556	Graphic Design for Interactive Media	4
ART 558	Product Development for Graphic Design	4
ART 563	Graphic Design for Games	4
ART 565	Typeface Design	4
ART 568	Motion Typography	4
ART 575	User Experience for Graphic Design	4

ART 656	Design Portfolio and Professional Practice	4
ART 663	Graphic Design Practicum	2

#### ELECTIVE STUDIO COURSES

Select additional elective studio courses (<http://guide.wisc.edu/courses/art/>) to reach the minimum of 45 credits.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements are based on UW-Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 2.75 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 2.75 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding ART 236 and ART 338).
- Major Residency: Must complete at least 24 credits of major coursework in the UW-Madison Art Department. All graphic design coursework must be completed in residence.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW-Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 120 credits to include at least 62 non-studio credits are required for graduation in the Art-B.S. degree program.

### DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

# FOUR-YEAR PLAN

## Bachelor of Science in Art: Graphic Design Option

### Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with your academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring)	3	Communication A (fall or spring)	3
ART 108	3	ART 208	3
ART 102	3	ART 104	3
ART 212	3	ART 107	3
ART 508	1	ART 508 (recommended)	1
Liberal Studies course work	2-5	Liberal Studies course work	2-5
<b>15</b>		<b>15</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ART 438 (Aesthetic course)	3	Aesthetic Elective	3-4
ART 346	4	Graphic Design Studio Elective	4
Art Studio Breadth course from 2D, 3D, or 4D categories	2-4	Ethnic Studies	3
Quantitative Reasoning A	3	Art Studio Elective Credits	1-4
Liberal Studies or General Elective course work	1-3	Liberal Studies or General Elective course work	4-6
<b>15</b>		<b>15</b>	

#### Junior

Fall	Credits	Spring	Credits
Art Studio Breadth course from 2D, 3D or 4D categories	4	Graphic Design Studio Elective	4
Art Studio Elective course work	2-4	Art Studio Breadth course from 2D, 3D or 4D categories	2-4
Communication B	3	Quantitative Reasoning B	3
Liberal Studies or General Elective course work	4-6	Liberal Studies or General Elective course work	4-6
<b>15</b>		<b>15</b>	

#### Senior

Fall	Credits	Spring	Credits
Studio Elective course work	3-4	Advanced (500/600 level) Graphic Design Studio Elective with assigned professional project	4
Liberal Studies, Studio or General Elective course work <sup>1</sup>	11-12	Liberal Studies, Studio or General Elective course work	11
<b>15</b>		<b>15</b>	

#### Total Credits 120

1

At least 62 "non-studio" credits must be taken to complete the B.S. Art degree. Aesthetics courses are considered to be non-studio. No more than 58 studio credits can be applied toward the 120 credits.

## ART, BFA

The highly ranked Department of Art's degree programs provide creative students with the critical and artistic skills needed to excel in contemporary, multidisciplinary art and design practices. The art curriculum fosters positive collaboration, the creation of innovative and technically advanced art works, and encourages the sharing of diverse points of view.

Degree programs feature a rigorous foundation program, a set of six courses that students often complete by participating in the popular Contemporary Art & Artists First-Year Interest Group (FIG), before branching out into one or more specialized areas (<https://art.wisc.edu/media-disciplines/>):

- 4D Digital Media
- 4D Video and Performance
- Ceramics
- Drawing/Painting
- Glass/Neon
- Graphic Design
- Metals/Jewelry
- Printmaking/Book Arts
- Photography
- Sculpture
- Wood/Furniture

#### The department offers five ways to complete a degree:

- The Bachelor of Science in Art (<https://guide.wisc.edu/undergraduate/education/art/art-bs/>) degree
- The Bachelor of Science in Art degree with Graphic Design option (<https://guide.wisc.edu/undergraduate/education/art/art-bs/art-graphic-design-bs/>)
- The Bachelor of Fine Arts (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/>) degree
- The Bachelor of Fine Arts degree with Graphic Design option (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/art-graphic-design-bfa/>)

- The Bachelor of Science in Art Education (<https://guide.wisc.edu/undergraduate/education/art/art-education-bs/>) degree

**Potential Careers for Artists** include: creative director, content marketing manager, arts coordinator and studio manager, ceramics, glassblowing, metal fabrication, illustration, commercial or fine arts photographer, primary/secondary school art teacher, gallerist, or studio artist. Our graduates also work as community arts organizers, user experience designers, technical assistants for major film companies, jewelry designers and fabricators, book designers, museum preparator and more!

The BFA degree is often selected by students wishing to develop a refined visual art portfolio in preparation for a career as a professional artist or designer, and/or for graduate study. The B.S.-Art degree requires 45 studio art credits, while the BFA requires 72 studio art credits.

All studio art majors begin their undergraduate career in the B.S.-Art program. After completing the foundations and studio breadth coursework, and going through the proper advising steps, students can declare one of the other art programs, such as a BFA or the BFA-Graphic Design Named Option.

The Bachelor of Science in Art Education provides essential preparation for careers in art education. Graduates of the Art Ed program earn a B.S.-Art Education degree, a Wisconsin teaching license in K-12 art education, and gain the skills, knowledge, and confidence to teach the visual arts in public and private schools, at the elementary and secondary levels, and in community settings such as art museums, maker spaces and senior centers.

The Department of Art believes that hardworking students who learn to harness and nurture their creative energies today will be the people influencing progress tomorrow. Come join us!

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students interested in the Art-BFA degree, or Art-BFA with the Graphic Design named option, initially enroll in the Art-B.S. degree or Art-B.S. with the Graphic Design named option while completing prerequisite coursework and establishing other criteria for BFA eligibility. A portfolio review is part of the BFA selection process. Students will typically apply to the BFA program in their junior year and must have attained a minimum of junior standing. For the BFA, an application may be submitted during the semester that the required courses will be completed. For the BFA: Graphic Design named option, an application may be submitted during the semester that the required courses will be completed, with the exception of ART 102 Two-Dimensional Design and ART 107 Introduction to Digital Forms, which must be successfully completed.

### APPLICATION AND ADMISSION

New freshmen and off-campus transfers are admitted directly to the Art-B.S. degree program and receive an ART classification. All art degree programs currently admit on-campus students to begin in the fall, spring, and summer. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should consult the School of Education's Undergraduate Admissions ([https://](https://education.wisc.edu/admissions-aid/undergraduate-admissions/)

[education.wisc.edu/admissions-aid/undergraduate-admissions/](https://education.wisc.edu/admissions-aid/undergraduate-admissions/)) page for updates to eligibility requirements prior to submitting an application.

## APPLICATION PROCEDURES PROSPECTIVE UW-MADISON APPLICANTS

Prospective applicants to UW-Madison are strongly encouraged to submit a portfolio to the Department of Art for review. Though a portfolio is not required, it does provide the art department an opportunity to make a recommendation on the applicant's behalf to UW-Madison's Office of Admissions and Recruitment. The Office of Admissions and Recruitment makes final determinations regarding the admission status of all applicants. Additional information, including submission guidelines, is available on the How to Apply (<https://art.wisc.edu/undergraduate/undergraduate-application/>) page of the art department's website.

## CURRENT UW-MADISON STUDENTS

On-campus students interested in pursuing the BFA must first apply to the Art-B.S. degree program. A meeting with an undergraduate advisor in the Department of Art is required, and can be scheduled using Starfish, (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) or by contacting the Department of Art at 608-262-1660. Upon successful completion of the BFA portfolio review (see details below), students will complete an application signed by an undergraduate advisor in the Department of Art to move into the BFA program.

## TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Note that off-campus transfer students will be held to the UW-Madison admission GPA requirements. BFA candidates cannot transfer directly into the BFA program; instead, they will be admitted to campus as if pursuing a B.S.-Art degree (ART classification) and can apply for the BFA program once enrolled on campus. Transfer students are strongly encouraged to meet with the Department of Art advisor prior to coming to campus; call 608-262-1660 to schedule an appointment. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that that the student has

an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) For more information on this rule, see this link (p. 1545).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education’s Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student’s primary area of study.

### CRITERIA FOR ADMISSION

- Previous Art–B.S. or Art–B.S. Graphic Design named option degree program status.
- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- For the BFA degree and the BFA degree with the Graphic Design named option, successful completion or concurrent enrollment in the following courses:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 108	Foundations of Contemporary Art	3
ART 208	Current Directions in Art	3
ART 212	Drawing Methods & Concepts	3

**One course from each of the following. See Requirements section for course options:**

- 2D Studio
- 3D Studio
- 4D Studio
- Graphics

- For the Graphic Design named option, must have successfully completed ART 102 Two-Dimensional Design and ART 107 Introduction to Digital Forms.
- Minimum 3.0 Art studio course GPA.
- Portfolio review.
  - The portfolio must be submitted only after all prerequisite coursework has been completed or during the semester the courses will be completed. The portfolio must contain images of work completed in college art courses. Specific portfolio requirements will be announced prior to scheduled reviews, held near the end of the fall and/or spring semesters. Students not accepted into the BFA program will be encouraged to continue in the B.S.–Art program and will be allowed to present their portfolio for review one additional time.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

## PROGRAM STRUCTURE

The Bachelor of Fine Arts (BFA) degree program in art has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- The *Foundations Program* requires six interrelated studio and aesthetics courses designed to prepare first-year students for further study in studio art and design.
- *Aesthetics* coursework gives students an opportunity to study both the history of art and contemporary developments in the visual arts.
- *Major* requirements permit in-depth studies of studio art. After taking courses in the Foundations area, students complete coursework in each of the four studio areas: 2D, 3D, 4D, and Graphics. BFA students are required to reach an advanced level in two studio disciplines.

## ART FOUNDATIONS PROGRAM

The Art Foundations Program is a series of interrelated studio and lecture courses to be taken by art and art education majors in their first year as preparation for further study in studio art and design. The program addresses the fundamentals of art through investigation of formal, technical and conceptual issues. The drawing, 2D and 3D design, digital media, and art historical lecture classes are designed to expose, broaden, and challenge students' understanding of contemporary art production.

Art Foundations classes are meant to be taken concurrently and the information covered in them is interrelated. Students completing the Foundations Program should enroll in ART 102 Two-Dimensional Design, ART 212 Drawing Methods & Concepts, and ART 108 Foundations of Contemporary Art for the fall semester and complete ART 104 Three-Dimensional Design, ART 107 Introduction to Digital Forms, and ART 208 Current Directions in Art in the spring.

Most freshman art majors complete their foundations courses through participation in the very popular Contemporary Art and Artists First-Year Interest Group (FIG), (<https://figs.wisc.edu/>) which also creates a network of corresponding experiences and a peer community that will continue throughout the program and often beyond graduation. Students in FIGs enjoy studying with instructors dedicated to serving first year students, the opportunity to integrate related ideas from all three classes, and the ready-made opportunities to form support networks and lasting friendships.

Additional information about the Foundations Program (<https://art.wisc.edu/media-disciplines/foundations/>) is available on the departmental website.

## AESTHETICS REQUIREMENTS

The BFA programs require a total of 18 aesthetics credits, including four required courses. The remaining credits will be met by selecting from a list of aesthetics electives. Liberal studies coursework in fine arts and literature can also count as aesthetics electives. Additional courses may be approved by the art department advisor.

### REQUIRED AESTHETICS COURSES

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3
ART 208	Current Directions in Art (component of the Foundations Program)	3
Select two additional courses from the following:		8
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	
ART 438	History of Graphic Design and Typography <sup>1</sup>	

1

If taken prior to summer, 2018, ART 438 may count toward either the aesthetics or studio requirements, but not both. Effective summer, 2018, it may only count toward the aesthetics requirement. This course is designed for students pursuing graphic design.

### AESTHETICS ELECTIVES

Select from the following to complete the required 18 credits. Liberal studies coursework in fine arts and literature can also double count as aesthetics electives.

**Elective Courses**

<b>Code</b>	<b>Title</b>	<b>Credits</b>			
AFRICAN/ FOLKLORE 210	The African Storyteller	3	ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	ANTHRO/ AMER IND 314	Indians of North America	3
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	4	ANTHRO 321	The Emergence of Human Culture	3
AFROAMER 151	Introduction to Contemporary Afro-American Society	3	ANTHRO 391	Bones for the Archaeologist	3
AFROAMER 155	They: Race in American Literature	3	ANTHRO 424	Historical Anthropology	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3	ANTHRO/ LINGUIS 430	Language and Culture	3-4
AFROAMER 231	Introduction to Afro-American History	3	ART 236	Bascom Course	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3	All Art History courses		
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3	ASIAN AM 101	Introduction to Asian American Studies	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4	ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3	ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	CLASSICS 322	The Romans	3
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	COM ARTS 250	Survey of Contemporary Media	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	COM ARTS 260	Communication and Human Behavior	3
AFROAMER 631	Colloquium in Afro-American History	3	COM ARTS 350	Introduction to Film	3
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3	COM ARTS 351	Television Industries	3
AFROAMER 673	Selected Topics in Afro-American Society	3	COM ARTS 352	Film History to 1960	3
ANTHRO 102	Archaeology and the Prehistoric World	3	COM ARTS 354	Film Genres	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3	COM ARTS 355	Introduction to Media Production	4
ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	COM ARTS 357	History of the Animated Film	3
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	COM ARTS 358	History of Documentary Film	3
			COM ARTS 450	Cultural History of Broadcasting	3
			COM ARTS 454	Critical Film Analysis	3
			COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	3
			COMP LIT 202	Introduction to Modern and Contemporary Literature	3
			COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3
			COMP LIT 990	Research and Thesis	1-12
			DANCE 255	Movement Composition for the Performing and Visual Arts	2
			DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3
			ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3
			ENGL 219	Shakespearean Drama	3
			ENGL 236	Bascom Course	3
			ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
			ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3
			ENGL 417	History of the English Language	3
			DS 221	Person and Environment Interactions	3
			DS 355	History of Fashion, 1400-Present	3

DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3	HISTORY 302	History of American Thought, 1859 to the Present	3-4
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3	HISTORY 303	A History of Greek Civilization	3-4
FOLKLORE 100	Introduction to Folklore	3	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
FOLKLORE/ AFRICAN 210	The African Storyteller	3	HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
FOLKLORE 220	The Folk Tale	3	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
FOLKLORE 230	Introduction to American Folklore	3	HISTORY 351	Seventeenth-Century Europe	3-4
FOLKLORE 320	Folklore of Wisconsin	3	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3	HISTORY 359	History of Europe Since 1945	3-4
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3	HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
FOLKLORE 460	Folk Epics	3	HISTORY/ ED POL 412	History of American Education	3
GEN&WS 101	Gender, Women, and Cultural Representation	3	HISTORY 418	History of Russia	3-4
GEN&WS 102	Gender, Women, and Society in Global Perspective	3	HISTORY 425	History of Poland and the Baltic Area	3-4
GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 102	American History, Civil War Era to the Present	4	HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4	HISTORY/ ECON 466	The American Economy Since 1865	3-4
HISTORY 115	Medieval Europe 410-1500	4	HISTORY 500	Reading Seminar in History	3
HISTORY 119	Europe and the World, 1400-1815	4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY 120	Europe and the Modern World 1815 to the Present	4	HISTORY/ JOURN 560	History of U.S. Media	4
HISTORY 142	History of South Asia to the Present	3-4	HISTORY 600	Advanced Seminar in History	3
HISTORY 200	Historical Studies	3	HISTORY 680	Honors Thesis Colloquium	2
HISTORY 201	The Historian's Craft	3-4	HISTORY 681	Senior Honors Thesis	1-3
HISTORY/INTL ST/ LACIS 242	Modern Latin America	4	HISTORY 682	Senior Honors Thesis	1-3
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY 690	Thesis Colloquium	2
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY 691	Senior Thesis	1-3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY 692	Senior Thesis	1-3
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	ILS 201	Western Culture: Science, Technology, Philosophy I	3
			ILS 202	Western Culture: Science, Technology, Philosophy II	3
			ILS 204	Western Culture: Literature and the Arts II	3-4
			ILS 205	Western Culture: Political, Economic, and Social Thought I	3
			ILS 206	Western Culture: Political, Economic, and Social Thought II	3
			ILS 251	Contemporary Physical Sciences	3
			LINGUIS 101	Human Language	3



LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
LITTRANS 236	Bascom Course-In Translation	3
LITTRANS 240	Soviet Literature in Translation	3-4
LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	3
LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3
LITTRANS/ GERMAN/ JEWISH 279	Yiddish Literature and Culture in America	3
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
LITTRANS 410	In Translation: Special Topics in Italian Literature	3
LITTRANS 473	Polish Literature (in Translation) since 1863	3
JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	3
JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3
JOURN 201	Introduction to Mass Communication	4
JOURN/ HISTORY 560	History of U.S. Media	4
JOURN 561	Mass Communication and Society	4
MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
MEDIEVAL/ HIST SCI 322	Ancient and Medieval Science	3
MEDIEVAL/ SCAND ST 408	Intermediate Old Norse	3
MEDIEVAL/ GERMAN 651	Introduction to Middle High German	3
MUSIC 101	The Musical Experience	3
MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	3
MUSIC 105	Storytelling on Stage: Introduction to Musical Theater and Opera	3
MUSIC 106	The Symphony	3
MUSIC 113	Music in Performance	1

MUSIC 211	Survey of the History of Western Music	3
PHILOS 101	Introduction to Philosophy	3-4
PHILOS 201	Introduction to Philosophy for Juniors and Seniors	3-4
PHILOS 341	Contemporary Moral Issues	3-4
PHILOS 430	History of Ancient Philosophy	3-4
PHILOS 432	History of Modern Philosophy	3-4
PHILOS 553	Aesthetics	3
PHYSICS 109	Physics in the Arts	3
RELIG ST 361	Early Christian Literature: Pauline Christianity	3
RELIG ST/AFRICAN/ ASIAN 370	Islam: Religion and Culture	4
RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)	3
SOC 125	American Society: How It Really Works	3-4
THEATRE 327	History of Costume for the Stage	3

## MAJOR REQUIREMENTS

The requirements listed here are effective for students admitted to the Art or BFA program effective summer, 2016. Students admitted prior to this time can find their major requirements listed in previous editions of the *Undergraduate Catalog* and on their DARS reports.

**Bachelor of Fine Arts (BFA) Program:** Complete a minimum of 72 studio credits, including the specific coursework below. The BFA degree requires 126 total credits. Admission to the BFA program requires the completion of (or concurrent enrollment in) ART 102, ART 104, ART 107, ART 108, ART 208, ART 212, and one course in each of the 2D, 3D, 4D and graphics areas. Students must have a 3.0 GPA in their studio coursework to be considered for the BFA program and have attained a minimum of sophomore standing. Successful participation in a portfolio review is also part of the selection process. Application may be made during the semester that the required courses will be completed. See How to Get In (p. 1596) for details about the application process.

**Major residency requirement.** The BFA program requires that at least 36 credits of major studio coursework be completed in residence at UW-Madison.

Art and BFA degree students have priority access to studio courses. Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

## REQUIRED STUDIO FOUNDATIONS COURSES

Complete the following:

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

## REQUIRED STUDIO BREADTH COURSES

Select one course in each of the 2D, 3D, 4D, and Graphics areas. Students will also take ART 508 at least once and complete a 500-level or 600-level art studio course in at least two disciplines. BFA candidates are

required to participate in an exhibit and concurrently enroll in a capstone course.

## 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4

## 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4

## 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

## Graphics

Select one of the following:

Code	Title	Credits
ART 306	Relief Printmaking	3-4
ART 316	Lithography	4
ART 326	Etching	4
ART 336	Serigraphy	3-4
ART 346	Basic Graphic Design	4
ART 348	Introduction to Digital Printmaking	4
ART 376	Photography	4
ART 446	Artists' Books	4

## Art Colloquium

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

## Advanced Studio Requirement

Complete a 500-level or 600-level Art studio course in two disciplines. ART 508, ART 608, and ART 699 will **not** fulfill this requirement.

## Exhibit Participation

BFA students must participate at least once in the department-sponsored exhibit, held in the spring semester. Requires concurrent enrollment in the professional practices/capstone course.

## Professional Practices/Capstone Course

BFA students must enroll in this course during the required semester of participation in the department-sponsored exhibit. Currently, offered as ART 448 section 10; a unique course number will be forthcoming.

## ELECTIVE STUDIO COURSES

Select elective studio courses (<http://guide.wisc.edu/courses/art/>) to reach the minimum of 72 credits.

## AREAS OF CONCENTRATION

Although a specific emphasis is not required, students may wish to develop an area of interest within the requirements of the BFA program. Concentrations in multi-media, 2D studio, 3D studio, and printmaking are some of the available tracks (<https://art.wisc.edu/media-disciplines/>) listed on the art department's website. Students wishing to concentrate in graphic design should declare the Graphic Design Named Option when eligible.

View as listView as grid

- ART: GRAPHIC DESIGN, BFA (P. 1605)

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

These requirements are based on UW-Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 3.0 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 3.0 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding ART 236 Bascom Course and ART 338 Service Learning in Art).
- Major Residency: Students must complete at least 36 major credits while enrolled in residence on the UW-Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW-Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 126 credits are required for graduation in the Art-BFA degree program.

## DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and

certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Learn the fundamentals of art and design through investigation of form, technology and concept within a cohort of like-minded and diverse artists and designers.
2. Develop skills in research, creative problem solving, and professional practices.
3. Expand knowledge of historical, thematic, critical, and theoretical issues as a means of strengthening verbal and visual vocabulary.
4. Demonstrate a broad understanding of distinct concepts and practices in two-dimensional media, three-dimensional media, four-dimensional media, printmaking, photography, or graphic design media.

5. Demonstrate competency at an advanced level in at least two disciplines of student's choice. (Graphic design named options: one of the two disciplines must be in graphic design.)

## FOUR-YEAR PLAN

### Bachelor of Fine Arts: Art - Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with your academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

A minimum of 126 credits are required. Six credits of liberal studies course work must be aesthetics-related and will count toward both liberal studies and aesthetics requirements.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring)	3	Communication A (fall or spring)	3
ART 108	3	ART 208	3
ART 102	3	ART 104	3
ART 212	3	ART 107	3
ART 508	1	Additional Studio Elective (ART 508 recommended)	1
Liberal Studies course work	2-5	Liberal Studies course work	2-5
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
Aesthetics Elective	4	Aesthetics Elective	4
Two Art Studio Breadth courses from 2D, 3D, 4D or GR categories	8	Two Art Studio Breadth courses from 2D, 3D, 4D or GR categories	8
Additional Studio Elective (ART 508 recommended)	1	Communication B	3
Quantitative Reasoning A	3	Liberal Studies course work	3
	<b>16</b>		<b>18</b>

#### Junior

Fall	Credits	Spring	Credits
BFA Application		Art Studio Elective course work	8
Art Studio Elective course work	12	Quantitative Reasoning B	3
Liberal Studies course work	4	Ethnic Studies	3
		Liberal Studies course work	3
	<b>16</b>		<b>17</b>

**Senior**

Fall	Credits	Spring	Credits
Area 1 Advanced Studio Elective		4 Participate in BFA Group Exhibition	
Studio Elective course work	8	Capstone Professional Practice Course	2
Additional Studio Elective (ART 508 recommended)	1	Area 2 Advanced Studio Elective	4
Liberal Studies course work	3	Additional Studio Electives	2
		Liberal Studies course work	5
<b>16</b>		<b>13</b>	

**Total Credits 126****ADVISING AND CAREERS****ART DEPARTMENT ADVISING**

Students declared in the B.S.–Art or BFA–Art major (including graphic design named options), as well as potential transfers into art, will meet with Undergraduate Art Program Advisor Matthew Mauk, [mmauk@wisc.edu](mailto:mmauk@wisc.edu), or through [artadvising@education.wisc.edu](mailto:artadvising@education.wisc.edu).

Prospective freshmen and art studio/graphic design certificate students will meet with Prospective Student and Certificate Advisor Mercedes Brandt, [mercedes.brandt@wisc.edu](mailto:mercedes.brandt@wisc.edu), or through [artadvising@education.wisc.edu](mailto:artadvising@education.wisc.edu).

Advisors are located at 6241 Humanities Building, 455 North Park Street.

Current Art majors can schedule an appointment with Matthew online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Certificate students can also use the Starfish app (<https://wisc.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=connection/109896>) to schedule an appointment with Mercedes. Appointments can also be made via email or, by calling 608-262-1660. Students are also strongly encouraged to confer with an advisor in the School of Education Student Services office on a regular basis, see below.

**SCHOOL OF EDUCATION ADVISING****ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION**

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies

- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

**CAREER ADVISING IN THE SCHOOL OF EDUCATION**

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Art majors include:** animation, ceramics, glassblowing, metal fabrication, graphic and multimedia design, illustration, videography, photography, teaching, and gallery art. Our graduates also work as community arts organizers, user experience designers, medical imagists, technical assistants for major film companies, jewelry designers and fabricators, book designers, and more.

Students develop important skills that employers look for, including:

- Diverse forms of communication, personal expression and connection
- Collaboration
- Creative problem solving
- Adaptability, agility, and the ability to learn new skills quickly
- Resilience

- Passion for their craft
- Empathy

Applied experiences, including paid internships, apprenticeship programs, career treks, and professional networking events, are available to UW Art students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

### ART AND THE WISCONSIN EXPERIENCE

The UW-Madison Art department provides a wide range of opportunities for students on campus and beyond. Available resources include courses that connect with the community, job opportunities, the chance to show work, and the ability to manage campus student organizations.

**Visiting Artists** - The Art department is unique in its ability to bring in weekly visiting artists through the Art Colloquium series. A professional national or international artist comes to campus to provide an artist's talk, studio visits, and general conversation about artmaking with students. Individual courses often bring in visiting artists throughout the semester to provide workshops on unique techniques from those who specialize in particular processes.

**Career Advising and Internships** - The School of Education Career Center (<https://careercenter.education.wisc.edu/>) has a designated advisor for art students who can provide connections with hourly campus employment, internships, and career options after graduation. The Art department offers courses that focus on internships in the arts and many studios hire hourly workers who learn the basics of maintaining an artist's studio space. The BFA capstone course also provides detailed instruction in writing a resume, cover letter, grant proposals, and residency applications.

**Student Organizations** - Student organizations are an excellent opportunity for art majors to establish connections with working artists, host workshops for the community, and to raise funds for travel. Fresh Hot Press (printmaking), AIGA (graphic design), Mad Gaffers (glassblowing), and Art for Change (activism) are just a few of the art-related options (<https://art.wisc.edu/art-at-uw/student-orgs/>). Student organizations are led by undergraduates and graduate students, with several using fundraising throughout the year to attend national conferences. Overall, there are multiple ways for undergraduates to refine their professional and technical skills in relation to their future career goals in the arts through student organizations.

**Exhibiting Artwork** - It is important for any artist to consistently show their work, and the Art Department does its part to provide this professional development to our students. Undergraduates have the opportunity to reserve one of our three large-scale galleries to install their work for documentation and submission of future exhibitions. Students also work with faculty to submit their pieces into galleries throughout Madison, Milwaukee, and nationally. The Art Department works with students in many ways to help promote their work and develop the skills necessary to establish a thriving career in the world of art.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Art and Design (<https://nasad.arts-accredit.org/>)

Accreditation status: Accredited. Next accreditation review: 2025-2026.

## ART: GRAPHIC DESIGN, BFA

### REQUIREMENTS

As an inherently interdisciplinary practice, graphic design plays an important role at every level of contemporary culture. Graphic design courses deliver skills and expertise that are in demand for all graphic design and related communications fields. Students develop abilities to think critically while working seamlessly across disciplines. In current and future iterations of the field, graphic designers must function as the "fusion" between art, business, engineering, research, and science.

Graduates of the Graphic Design named option programs will have experienced a range of forms and media that provide professional preparation, as well as the development of unique intellectual and visual voice. Graduating students will also possess the flexibility to adapt to a changing, unpredictable world where the methods of communication will continuously evolve and expand.

The named option requirements listed here are components of the BFA - Art (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/#requirementstext>) degree requirements.

## AESTHETICS REQUIREMENTS - GRAPHIC DESIGN OPTION

The BFA Graphic Design option program requires a total of 18 aesthetics credits, including four required courses. The remaining credits will be met by selecting from a list of aesthetics electives. Additional aesthetics courses may be approved by the art department advisor.

### REQUIRED AESTHETICS COURSES

Code	Title	Credits
ART 108	Foundations of Contemporary Art (component of the Foundations Program)	3
ART 208	Current Directions in Art (component of the Foundations Program)	3
ART 438	History of Graphic Design and Typography	3
Select one additional courses from the following:		4
ART HIST 201	History of Western Art I: From Pyramids to Cathedrals	
ART HIST 202	History of Western Art II: From Renaissance to Contemporary	
ART HIST 205	Global Arts	

### AESTHETICS ELECTIVES

Select from the following to complete the required 18 credits. Liberal studies coursework in fine arts and literature can also double count as aesthetics electives.

Elective Courses		
Code	Title	Credits
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	4
AFROAMER 151	Introduction to Contemporary Afro-American Society	3
AFROAMER 155	They: Race in American Literature	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER/ ART HIST 241	Introduction to African Art and Architecture	3
AFROAMER/ ART HIST 242	Introduction to Afro-American Art	3

AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER 631	Colloquium in Afro-American History	3
AFROAMER/ ENGL 672	Selected Topics in Afro-American Literature	3
AFROAMER 673	Selected Topics in Afro-American Society	3
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 321	The Emergence of Human Culture	3
ANTHRO 391	Bones for the Archaeologist	3
ANTHRO 424	Historical Anthropology	3
ANTHRO/ LINGUIS 430	Language and Culture	3-4
ART 236	Bascom Course	3
All Art History courses		
ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM/ ENGL 270	A Survey of Asian American Literature	3
CLASSICS 322	The Romans	3
COM ARTS 250	Survey of Contemporary Media	3
COM ARTS 260	Communication and Human Behavior	3

COM ARTS 350	Introduction to Film	3	GEN&WS 102	Gender, Women, and Society in Global Perspective	3
COM ARTS 351	Television Industries	3	GEN&WS/ AFROAMER 222	Introduction to Black Women Writers	3
COM ARTS 352	Film History to 1960	3	HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
COM ARTS 354	Film Genres	3	HISTORY 102	American History, Civil War Era to the Present	4
COM ARTS 355	Introduction to Media Production	4	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
COM ARTS 357	History of the Animated Film	3	HISTORY 115	Medieval Europe 410-1500	4
COM ARTS 358	History of Documentary Film	3	HISTORY 119	Europe and the World, 1400-1815	4
COM ARTS 450	Cultural History of Broadcasting	3	HISTORY 120	Europe and the Modern World 1815 to the Present	4
COM ARTS 454	Critical Film Analysis	3	HISTORY 142	History of South Asia to the Present	3-4
COMP LIT 201	Introduction to Pre-Modern Literatures/Impact on the Modern World	3	HISTORY 200	Historical Studies	3
COMP LIT 202	Introduction to Modern and Contemporary Literature	3	HISTORY 201	The Historian's Craft	3-4
COMP LIT 203	Introduction to Cross-Cultural Literary Forms	3	HISTORY/INTL ST/ LACIS 242	Modern Latin America	4
COMP LIT 990	Research and Thesis	1-12	HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
DANCE 255	Movement Composition for the Performing and Visual Arts	2	HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3	HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3	HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
ENGL 219	Shakespearean Drama	3	HISTORY 302	History of American Thought, 1859 to the Present	3-4
ENGL 236	Bascom Course	3	HISTORY 303	A History of Greek Civilization	3-4
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
ENGL/HISTORY/ RELIG ST 360	The Anglo-Saxons	3	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
ENGL 417	History of the English Language	3	HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
DS 221	Person and Environment Interactions	3	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
DS 355	History of Fashion, 1400-Present	3	HISTORY 351	Seventeenth-Century Europe	3-4
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3	HISTORY 359	History of Europe Since 1945	3-4
FOLKLORE 100	Introduction to Folklore	3	HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4
FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3	HISTORY/ ED POL 412	History of American Education	3
FOLKLORE/ AFRICAN 210	The African Storyteller	3	HISTORY 418	History of Russia	3-4
FOLKLORE 220	The Folk Tale	3			
FOLKLORE 230	Introduction to American Folklore	3			
FOLKLORE 320	Folklore of Wisconsin	3			
FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3			
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3			
FOLKLORE 460	Folk Epics	3			
GEN&WS 101	Gender, Women, and Cultural Representation	3			

HISTORY 425	History of Poland and the Baltic Area	3-4	LITTRANS/ GERMAN/ JEWISH 279	Yiddish Literature and Culture in America	3
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4	LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	LITTRANS 410	In Translation: Special Topics in Italian Literature	3
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
HISTORY/ ECON 466	The American Economy Since 1865	3-4	JEWISH/GERMAN/ LITTRANS 279	Yiddish Literature and Culture in America	3
HISTORY 500	Reading Seminar in History	3	JEWISH/HEBR- MOD 301	Introduction to Hebrew Literature	3
HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4	JOURN 201	Introduction to Mass Communication	4
HISTORY/ JOURN 560	History of U.S. Media	4	JOURN/ HISTORY 560	History of U.S. Media	4
HISTORY 600	Advanced Seminar in History	3	JOURN 561	Mass Communication and Society	4
HISTORY 680	Honors Thesis Colloquium	2	MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY 681	Senior Honors Thesis	1-3	MEDIEVAL/ HIST SCI 322	Ancient and Medieval Science	3
HISTORY 682	Senior Honors Thesis	1-3	MEDIEVAL/ SCAND ST 408	Intermediate Old Norse	3
HISTORY 690	Thesis Colloquium	2	MEDIEVAL/ GERMAN 651	Introduction to Middle High German	3
HISTORY 691	Senior Thesis	1-3	MUSIC 101	The Musical Experience	3
HISTORY 692	Senior Thesis	1-3	MUSIC/ FOLKLORE 103	Introduction to Music Cultures of the World	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3	MUSIC 105	Storytelling on Stage: Introduction to Musical Theater and Opera	3
ILS 202	Western Culture: Science, Technology, Philosophy II	3	MUSIC 106	The Symphony	3
ILS 204	Western Culture: Literature and the Arts II	3-4	MUSIC 113	Music in Performance	1
ILS 205	Western Culture: Political, Economic, and Social Thought I	3	MUSIC 211	Survey of the History of Western Music	3
ILS 206	Western Culture: Political, Economic, and Social Thought II	3	PHILOS 101	Introduction to Philosophy	3-4
ILS 251	Contemporary Physical Sciences	3	PHILOS 201	Introduction to Philosophy for Juniors and Seniors	3-4
LINGUIS 101	Human Language	3	PHILOS 341	Contemporary Moral Issues	3-4
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3	PHILOS 430	History of Ancient Philosophy	3-4
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3	PHILOS 432	History of Modern Philosophy	3-4
LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4	PHILOS 553	Aesthetics	3
LITTRANS 236	Bascom Course-In Translation	3	PHYSICS 109	Physics in the Arts	3
LITTRANS 240	Soviet Literature in Translation	3-4	RELIG ST 361	Early Christian Literature: Pauline Christianity	3
LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	3	RELIG ST/AFRICAN/ ASIAN 370	Islam: Religion and Culture	4
LITTRANS 262	Survey of Chinese Literature in Translation	3	RELIG ST/ ASIAN 444	Introduction to Sufism (Islamic Mysticism)	3
LITTRANS 264	Survey of Japanese Literature in Translation	3	SOC 125	American Society: How It Really Works	3-4
LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4	THEATRE 327	History of Costume for the Stage	3
LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4			
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3			



## MAJOR REQUIREMENTS - GRAPHIC DESIGN OPTION

Complete a minimum of 72 studio credits, including the specific coursework below. The BFA degree requires 126 credits. At least 36 credits of major studio coursework be completed in residence at UW-Madison.

Art and BFA degree students have priority access to studio courses. Note: Some courses are offered for 3 or 4 credits; it is preferred that the course be taken for 4 credits.

### REQUIRED STUDIO FOUNDATION COURSES - GRAPHIC DESIGN OPTION

Code	Title	Credits
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 212	Drawing Methods & Concepts	3

### REQUIRED STUDIO BREADTH COURSES - GRAPHIC DESIGN OPTION

Complete one course in each of the Graphic Design, 2D, 3D, and 4D areas. Students will also take ART 508 at least once and complete a 500-level or 600-level art studio course in graphic design and also in another discipline.

#### Graphic Design

Code	Title	Credits
ART 346	Basic Graphic Design	4

#### 2D Studio

Select one of the following:

Code	Title	Credits
ART 222	Introduction to Painting	3-4
ART 232	Life Drawing I	4
ART 242	Watercolor I	3-4
ART 302	Color	4
ART 312	Intermediate Drawing I	3-4

#### 3D Studio

Select one of the following:

Code	Title	Credits
ART 214	Sculpture I	4
ART 224	Ceramics I	4
ART 244	Art Metal I	3-4
ART 334	Wood Working	3-4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 354	Glassworking	4
ART 454	Neon: Light as Sculpture	4

#### 4D Studio

Select one of the following:

Code	Title	Credits
ART 309	Digital Art and Code	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 338	Service Learning in Art	2
ART 409	Digital Fabrication Studio	4
ART 428	Digital Imaging Studio	4
ART 429	3D Digital Studio I	4
ART 470	Special Topics in 4D Art	3-4
ART 521	Installations and Environments	4
ART 531	Screen Performance	3-4

### Visiting Artist Lecture Series \_ Graphic Design Option

Complete the following:

Code	Title	Credits
ART 508	Colloquium in Art (Students are encouraged to enroll in this visiting artist lecture series multiple times)	1

### Additional Studios - Graphic Design Option

Complete at least 20 studio credits of graphic design coursework, **to include at least one 500 or 600 level course**, from the following list:

Code	Title	Credits
ART 458	Graphic Design for Branding and Identity	4
ART 463	Information Graphics	4
ART 465	Graphic Design for Packaging	4
ART 467	Graphic Design for Posters	4
ART 525	Advanced Typography	4
ART 546	Graphic Design for Publications	4
ART 556	Graphic Design for Interactive Media	4
ART 558	Product Development for Graphic Design	4
ART 563	Graphic Design for Games	4
ART 565	Typeface Design	4
ART 568	Motion Typography	4
ART 575	User Experience for Graphic Design	4
ART 656	Design Portfolio and Professional Practice	4
ART 663	Graphic Design Practicum	2

### ADVANCED LEVEL COURSE IN A SECOND DISCIPLINE

BFA-Art Graphic Design option students must plan for and complete an advanced-level (500-600) studio course in a secondary discipline of their choice. Common selections are in digital media, drawing/painting, video, glass, printmaking, and photography.

### ELECTIVE STUDIO COURSES

Select additional elective studio courses (<http://guide.wisc.edu/courses/art/>) to reach the minimum of 72 credits.

# GPA AND OTHER GRADUATION REQUIREMENTS

## GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 3.0 cumulative grade point average in all major studio coursework.
- Upper-level major coursework: 3.0 cumulative grade point average in all upper-level major coursework (Art courses numbered 214 and above, excluding ART 236 and ART 338).
- Major Residency: Must complete at least 36 credits of major coursework in the UW–Madison Art Department. All graphic design coursework must be completed in residence.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 126 credits must be completed to earn the BFA degree.

## DEGREE AUDIT (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

your placement scores, incoming credits, and individual interests. Consult with your academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

A minimum of 126 credits are required. Six credits of liberal studies course work must be aesthetics-related and will count toward both liberal studies and aesthetics requirements.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring)		3 Communication A (fall or spring)	3
ART 108		3 ART 208	3
ART 102		3 ART 104	3
ART 212		3 ART 107	3
ART 508		1 Additional Studio Elective (ART 508 recommended)	1
Liberal Studies course work		2-5 Liberal Studies course work	2-5
		<b>15</b>	<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits
ART 438 (Aesthetic)		3 Aesthetic Elective	3-4
ART 346		4 Art Studio Breadth course from 2D, 3D, or 4D categories	4
Art Studio Breadth course from 2D, 3D, or 4D categories		4 Graphic Design Studio course	4
Quantitative Reasoning A		3 Communication B	3
		Liberal Studies course work	2-3
		<b>14</b>	<b>18</b>

### Junior

Fall	Credits	Spring	Credits
BFA Application		Graphic Design Studio Elective	4
Graphic Design Studio Elective		4 Art or Design Studio Elective	4
Art or Design Studio Electives		8 Quantitative Reasoning B	3
Liberal Studies course work		4 Ethnic Studies	3
		Liberal Studies course work	3
		<b>16</b>	<b>17</b>

### Senior

Fall	Credits	Spring	Credits
Graphic Design Studio Elective		4 Capstone Professional Practice Course	2
Area 2 Advanced Studio Elective, Intermediate Level		4 Area 2 Advanced Studio Elective	4

## FOUR-YEAR PLAN

### Bachelor of Fine Arts: Art - Graphic Design Named Option

#### Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting

Art or Design Studio Elective course work	4 Advanced Graphic Design Studio Elective	4
Liberal Studies course work	4 Liberal Studies course work	5
	<b>16</b>	<b>15</b>

**Total Credits 126**

## GRAPHIC DESIGN, CERTIFICATE

The Graphic Design Certificate allows students from across campus, regardless of their major or degree program, to engage in a meaningful, rigorous sequence of coursework introducing them to the field of graphic design. Previous college coursework or job experience in art and design is very beneficial, but not required.

An inherently interdisciplinary practice, graphic design plays an important role at every level of contemporary culture. Graphic designers function as the “fusion” between art, business, engineering, research, and science fields. Students intending to pursue a **career in graphic design** should instead select the Graphic Design named option in either the BS–Art (<https://guide.wisc.edu/undergraduate/education/art/art-bs/#text>) or Art BFA (<https://guide.wisc.edu/undergraduate/education/art/art-bfa/>) degree program. Contact an advisor in the Art Department to explore the major.

Students completing a degree within the College of Letters & Science should be aware that none of the courses within the Graphic Design certificate count as LAS credits (L&S). All students should work with their primary academic advisors to assess if the certificate will work within their academic plan.

Students must complete a required foundations course before being able to declare the certificate.

Due to the required sequencing of courses, a minimum of four semesters (excluding summers) are usually necessary to complete the certificate; please plan accordingly.

### HOW TO GET IN

## DECLARATION PROCESS

Students intending to complete the Graphic Design certificate can find the declaration form on the School of Education's Certificate Programs page. The declaration for this certificate program can be submitted at any time during the academic year.

## ELIGIBILITY

Undergraduate students in good academic standing, with a cumulative GPA of 2.50 or higher, and who have completed either ART 102 Two-Dimensional Design or ART 107 Introduction to Digital Forms with a grade of B or higher, may declare this certificate. University Special students are also eligible to complete this certificate if they started at UW–Madison and graduated before completing the requirements.

Students participating in the Art–B.S., Art Education, or Art–BFA degree programs may not declare this certificate. Auditors are also not eligible.

## REQUIREMENTS

The Graphic Design Certificate requires a minimum of 18 credits as distributed below. At least 12 credits must be completed in residence in the Art Department. Study abroad credits do not count toward the residency requirement.

Completion of the certificate requires a 2.75 grade point average across all certificate coursework.

Code	Title	Credits
<b>To declare the certificate, complete either course with a grade of B or better</b>		
ART 102	Two-Dimensional Design (preferred)	3
ART 107	Introduction to Digital Forms	3
<b>After certificate declaration, complete both courses</b>		
ART 346	Basic Graphic Design	4
ART 438	History of Graphic Design and Typography	3
<b>After completing 346 and 438, complete at least 8 additional credits from the following</b>		<b>8</b>
ART 458	Graphic Design for Branding and Identity	
ART 463	Information Graphics	
ART 465	Graphic Design for Packaging	
ART 467	Graphic Design for Posters	
ART 525	Advanced Typography	
ART 546	Graphic Design for Publications	
ART 556	Graphic Design for Interactive Media	
ART 558	Product Development for Graphic Design	
ART 563	Graphic Design for Games	
ART 565	Typeface Design	
ART 568	Motion Typography	
ART 575	User Experience for Graphic Design	
ART 663	Graphic Design Practicum	

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATE

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW–Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. Correctly recognize and identify important eras, developments, movements, and theories in historical and contemporary design practice.
2. Recognize, develop and consistently employ the elements and principles of effective graphic design and typography in their own studio work, and will recognize it in the work of other artists.
3. Demonstrate technical and conceptual proficiency and will apply critical thinking skills in order to contextualize their practice in the contemporary design arena.
4. Understand the steps, tools, and skills necessary for participating in professional activities pertaining to graphic design and typography.
5. Develop a strong work ethic driven by both logical and inventive working process.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Art can be found on the department's website (<https://art.wisc.edu/>).

## CURRICULUM AND INSTRUCTION

The Department of Curriculum and Instruction is one of the premier research and teaching departments devoted to understanding the complex world of teaching, learning, curriculum, and policy. Faculty pursue a diverse array of research combining experience in schools with expertise drawn from a range of disciplinary fields. This world-class research is the foundation of its work preparing future teachers and the next generation of educational researchers.

Undergraduate degree programs offered by the department include Elementary Education (p. 1625) and Communication Sciences and Disorders (p. 1617). Students interested in Elementary Education can pursue one of five dynamic certification options:

- **Kindergarten through Ninth Grade** – Students completing this core program option will be certified to teach general education at the grade levels of K-9 and will also be eligible to teach in a 4K classroom.
- English as a Second Language (ESL) K-12 (p. 1646) **and** Kindergarten through Ninth Grade (p. 1634) – A minor in English as a Second Language can be added to the core K-9 program. Students selecting this combination will be certified to teach general education at the grade levels of K-9 (including eligibility for 4K) **and** English as a Second Language in grades K-12.
- Early Childhood Education (ECE) (p. 1623) **and** Kindergarten through Ninth Grade (p. 1634) – A minor in Early Childhood can also be added to the core K-9 program. Students selecting this combination will be certified to teach general education at the grade levels of K-9 (including eligibility for 4K) **and** in Early Childhood (birth through grade 3).
- Kindergarten through Ninth Grade (p. 1634), **and** Early Childhood Education (p. 1623), **and** English as a Second Language K-12 (p. 1646) – Students may opt to complete both

the ECE and ESL minors in combination with K-9 certification. Successful students receive certification in all three areas: general education in grades K-9 (including eligibility for 4K), Early Childhood (birth through grade 3), and English as a Second Language in grades K-12.

- Kindergarten through Ninth Grade and Special Education K-12 (Dual Certification) (p. 1748) – Students interested in both Elementary and Special Education should investigate the new Elementary Education and Special Education degree, housed in the department of Rehabilitation Psychology and Special Education. Upon completion, students are certified in general education at the grade levels of K-9 (including eligibility for 4K), **and** Special Education in grades K-12.

Two certificate programs, Arts and Teaching (p. 1613) and Preparing to Teach Abroad (p. 1664), may be completed by undergraduates from across the campus.

## DEGREES/MAJORS/CERTIFICATES

Undergraduate programs are offered in the areas listed below. Upon successful completion of a program leading to certification, candidates are certified in their respective subject and grade level and become eligible for a Wisconsin teaching license obtained through the Wisconsin Department of Public Instruction.

**Note:** Students at UW–Madison become certified to teach secondary **English, Mathematics, Science, Social Studies, and World Languages** only through graduate-level coursework, not as undergraduates. Information about the Master's degree program is available at [uwteach.org](https://uwteach.org) (<https://uwteach.education.wisc.edu/>) and the Curriculum and Instruction website. (<https://ci.education.wisc.edu>)

- Arts and Teaching, Certificate (p. 1613)
- Biology, Minor (p. 1614)
- Chemistry, Minor (p. 1616)
- Communication Sciences and Disorders, BSE (p. 1617)
- Early Childhood Education, Minor (p. 1623)
- Earth Science, Minor (p. 1623)
- Economics, Minor (p. 1624)
- Elementary Education, BSE (p. 1625)
- English as a Second Language, Minor (p. 1646)
- English Language Arts, Minor (p. 1646)
- English, Minor (p. 1649)
- Game Design, Certificate (p. 1649)
- Geography, Minor (p. 1650)
- History, Minor (p. 1653)
- Mathematics and Science Dual, Minor (p. 1658)
- Mathematics Specialized, Minor (p. 1660)
- Mathematics, Minor (p. 1660)
- Physics, Minor (p. 1661)
- Political Science, Minor (p. 1662)
- Preparing to Teach Abroad, Certificate (p. 1664)
- Psychology, Minor (p. 1666)
- Science Specialized, Minor (p. 1666)

- Social Studies, Minor (p. 1667)
- Sociology, Minor (p. 1676)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Curriculum and Instruction can be found on the department's website. (<http://ci.education.wisc.edu/>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ARTS AND TEACHING, CERTIFICATE

The Certificate in Arts and Teaching is a great opportunity for undergraduate art-makers from all disciplines to incorporate teaching into their professional practice. The teaching artist is a valued professional in a range of learning settings from museums to theatre companies to providing support for school-based arts programs. We are excited to offer undergraduates from across campus the opportunity to learn about theories of teaching and learning, to work alongside future classroom teachers and other arts practitioners, and to get the opportunity to try out teaching artist work in a community-based learning setting.

The program includes two required courses, CURRIC 328 Arts Integration for Teaching and Learning and CURRIC 329 Teaching Artist Practicum, and three electives offering a range of experiences in introductory education and arts practice courses. This program is for all student-artists, those who are majoring in the arts and those who practice their art form in their lives outside of the classroom. While you will not earn a teaching license to teach art in schools, the completion of this certificate will likely make you more competitive for jobs that require teaching experience in the arts, including afterschool programs, museum education, non-profit organizations, and private arts studios.

## HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Certificate in Arts and Teaching. Students should meet with the certificate advisor to discuss their intention to pursue the certificate. Appointments may be arranged via email. To declare the certificate, students must also complete the declaration form located on the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Certificate in Arts and Teaching requires the following course distribution for a minimum of 15 credits. At least 8 credits must be completed in residence. Students must complete two required courses,

CURRIC 328 and CURRIC 329, one course in Foundations of Teaching and Learning, and two courses in the Arts. Students are encouraged to take Arts courses that will broaden their artistic practice.

Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

### REQUIRED COURSES

Code	Title	Credits
CURRIC 328	Arts Integration for Teaching and Learning	3
CURRIC 329	Teaching Artist Practicum	3

### FOUNDATIONS OF TEACHING AND LEARNING

Select 3 credits from the following:

Code	Title	Credits
CURRIC 209	Digital Media and Literacy	3
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
CURRIC 331	Taking Education Outside of School	3
CURRIC 364	Introduction to Education	3
ED PSYCH 301	How People Learn	3
ED PSYCH 320	Human Development in Infancy and Childhood	2-3
ED POL 200	Race, Ethnicity, and Inequality in American Education	3
ED POL 300	School and Society	3
ED POL 450	Rethinking "After-School" Education	3

### COURSES IN THE ARTS

Select 6 credits from the following:

Code	Title	Credits
ART 100	Introduction to Art	3
ART 102	Two-Dimensional Design	3
ART 104	Three-Dimensional Design	3
ART 107	Introduction to Digital Forms	3
ART 108	Foundations of Contemporary Art	3
ART 112	Drawing I	3
ART 176	Digital Photography for Non-Art Majors	4
ART 208	Current Directions in Art	3
ART 212	Drawing Methods & Concepts	3
ART 214	Sculpture I	4
ART 222	Introduction to Painting	3-4
ART 224	Ceramics I	4
ART/DS 226	Textile Design: Off-Loom Construction	3
ART/DS 229	Textile Design: Weaving I	3
ART 232	Life Drawing I	4
ART 236	Bascom Course	3
ART 242	Watercolor I	3-4
ART 244	Art Metal I	3-4
ART 302	Color	4

ART 306	Relief Printmaking	3-4
ART 307	Making Comics I	4
ART 309	Digital Art and Code	4
ART 312	Intermediate Drawing I	3-4
ART 314	Sculpture II	4
ART 316	Lithography	4
ART 318	Introduction to Video, Performance & Installation Art	4
ART 322	Intermediate Painting I	4
ART 324	Ceramics II	4
ART 326	Etching	4
ART 332	Life Drawing II	4
ART 334	Wood Working	3-4
ART 336	Serigraphy	3-4
ART 338	Service Learning in Art	2
ART/DANCE 341	Sound Design for the Performing and Visual Arts	3
ART 342	Watercolor II	4
ART 343	Metal Fabrication and Welding in Sculpture	3-4
ART 346	Basic Graphic Design	4
ART 348	Introduction to Digital Printmaking	4
ART 354	Glassworking	4
ART 356	Coding for Graphic Design	4
ART/THEATRE 366	Stage Lighting I	3
ART/THEATRE 372	Set Design I	3
ART 376	Photography	4
ART 393	Internships in Art	1
ART ED 321	Introduction to Teaching Art	2
ART ED 323	Foundations in Art Education	3
ART ED 324	Methods in Art Education	3
DANCE 156	Movement as Material Through Improvisation	2
DANCE 131	Somatic Theory and Practices	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 231	Introduction to Dance/Movement Therapy	2
DS 341	Design Thinking for Transformation	3
M H R/ INTEGART 632	Introduction to Arts Entrepreneurship	3
M H R/ INTEGART 636	Entrepreneurship in Arts & Cultural Organizations	3
MUSIC 151	Basic Concepts of Music Theory	3
MUSIC 240	Interplay between Music, Art, and Society	3
MUSIC 497	Special Topics in Music	1-3
CURRIC/SLAVIC/ THEATRE 362	Drama for Teaching and Learning	3
THEATRE 150	Acting I: Introduction to Acting	3
THEATRE 200	Acting Skills for Life	2
THEATRE 219	Undergraduate Topics in Theatre and Drama	1-3
THEATRE 260	Producing Theatre	3

THEATRE 357 Introduction to Theatre for Cultural and Social Awareness 3

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Gain understanding of the theories of teaching and learning that guide informal learning environments
2. Experience a breadth of artistic practice, including those outside a student's primary artistic discipline
3. Develop a framework for arts teaching in informal learning environments
4. Create an arts program for an informal learning environment that integrates theories of teaching and learning with disciplinary arts practice

## BIOLOGY, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with a biology undergraduate advisor (<http://biologymajor.wisc.edu/advising/>) to discuss course selection and other issues related to this field of study. The Biology Major website (<http://biologymajor.wisc.edu/>) is also a good resource, providing information about areas of study within biology and upcoming biology-related activities on campus. Biology is offered as a major in both the College of Letters & Science and the College of Agricultural and Life Sciences.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

### HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

The biology minor requires a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all biology minor coursework taken on the UW–Madison campus. Biocore sequence coursework may also be used to meet these requirements; consult with an advisor in Education Student Services.

Discipline-related course work is also required, but not calculated into the minor credits or gpa.

## REQUIRED DISCIPLINE-RELATED COURSES

Code	Title	Credits
Select a minimum of 6 credits in Mathematics and/or Statistics, college level, excluding MATH 130–MATH 132		
Select one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Select one of the following:		8-10
PHYSICS 103 & PHYSICS 104	General Physics and General Physics	
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	

## MINOR REQUIREMENTS

### INTRODUCTORY BIOLOGY. SELECT ONE OF THE FOLLOWING OPTIONS:

Code	Title	Credits
Option 1: <sup>1</sup>		
BIOLOGY/ ZOOLOGY 101	Animal Biology	3
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory	2
BIOLOGY/ BOTANY 130	General Botany	5
Option 2:		
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology	5
BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5

1

Students earning Advanced Placement (AP) or International Baccalaureate (IB) Biology scores of 4 or above are given credit for BIOLOGY/BOTANY/ZOOLOGY 151 at UW–Madison. This course fulfills the entire 151–152 sequence. Students taking BIOLOGY/BOTANY/ZOOLOGY 151 coursework at UW–Madison or transfer it from another campus must complete both BIOLOGY/BOTANY/ZOOLOGY 151 and BIOLOGY/BOTANY/ZOOLOGY 152 to complete the 151–152 sequence.

## GENETICS

Code	Title	Credits
GENETICS 466	Principles of Genetics	3

## ELECTIVES

Complete biology elective coursework from the approved lists to reach a minimum of 24 credits. The courses must be numbered 300 and above and include at least one course from two of the following three areas: (1) Ecology, Evolution, Genetics, (2) Cell and Molecular Biology, and (3) Physiology. Additional courses may, with the consent of an advisor, be selected to meet the elective requirements.

### Area 1: Ecology/Evolution/Genetics

Code	Title	Credits
AN SCI 610	Quantitative Genetics	3
BOTANY 300	Plant Anatomy <sup>1</sup>	4
BOTANY 305	Plant Morphology and Evolution <sup>1</sup>	4
BOTANY 330	Algae	3
BOTANY/ PL PATH 332	Fungi <sup>1</sup>	4
BOTANY 400	Plant Systematics <sup>1</sup>	4
BOTANY 401	Vascular Flora of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL 402	Dendrology <sup>1</sup>	2
BOTANY 403	Field Collections and Identification <sup>1</sup>	1-4
BOTANY 422	Plant Geography	3
BOTANY/ F&W ECOL 455	The Vegetation of Wisconsin <sup>1</sup>	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology <sup>1</sup>	4
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ZOOLOGY/ ENTOM 302	Introduction to Entomology <sup>1</sup>	4
ZOOLOGY/ ENVIR ST 315	Limnology–Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology–Conservation of Aquatic Resources <sup>1</sup>	2-3
ZOOLOGY/ENTOM/ M M & I/PATH- BIO 350	Parasitology	3
ZOOLOGY/ ENVIR ST/ F&W ECOL 360	Extinction of Species	3
ZOOLOGY/ ANTHRO/ BOTANY 410	Evolutionary Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY/ BOTANY/ F&W ECOL 460	General Ecology <sup>1</sup>	4
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab <sup>1</sup>	2

ZOOLOGY/AN SCI/ F&W ECOL 520	Ornithology	3
ZOOLOGY/AN SCI/ F&W ECOL 521	Birds of Southern Wisconsin <sup>1</sup>	3
ZOOLOGY 525	Tropical Herpetology	1
MICROBIO 607	Advanced Microbial Genetics	3
ENTOM 331	Taxonomy of Mature Insects <sup>1</sup>	4
ENTOM 468	Studies in Field Entomology <sup>1</sup>	3
GENETICS/ MD GENET 565	Human Genetics	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	3
HORT/ AGRONOMY 501	Principles of Plant Breeding	3
LAND ARC/ ENVIR ST 361	Wetlands Ecology <sup>1</sup>	3
PL PATH 300	Introduction to Plant Pathology <sup>1</sup>	4

1

Courses are lab or field courses.

### Area 2: Cell and Molecular Biology

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 607	Advanced Microbial Genetics	3
M M & I/PATH- BIO 528	Immunology	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
PL PATH/ ONCOLOGY 640	General Virology-Multiplication of Viruses	3
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 570	Cell Biology	3

### Area 3: Physiology

Code	Title	Credits
BOTANY 500	Plant Physiology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory <sup>1</sup>	2
ANAT&PHY 335	Physiology <sup>1</sup>	5

1

Courses are lab or field courses.

## CHEMISTRY, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Chemistry is housed in the College of Letters & Science. Students may wish to consult with a chemistry undergraduate advisor (<http://www.chem.wisc.edu/content/undergraduate-advising/>) to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

### CHEMISTRY MINOR PREREQUISITES

Note that students must complete prerequisite coursework before enrolling in some courses required for the minor. For example, MATH 222 Calculus and Analytic Geometry 2 and PHYSICS 201 General Physics or PHYSICS 207 General Physics must be completed before taking CHEM 561 Physical Chemistry. Prerequisite coursework may be used to meet liberal studies requirements.

### CHEMISTRY MINOR REQUIREMENTS

A minimum cumulative grade point average of 2.75 is required, based on all chemistry minor coursework taken on the UW-Madison campus.

Complete at least 22 credits, including the following:

Code	Title	Credits
<b>Introductory Chemistry</b>		
Select one of the following:		5-9
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	



**Analytical Chemistry**

Select one of the following: 4-5

CHEM 327 Fundamentals of Analytical Science

CHEM 329 Fundamentals of Analytical Science

CHEM 116 Chemical Principles II  
& CHEM 115 and Chemical Principles I**Organic Chemistry**

Select one of the following options: 7-8

Option 1:

CHEM 341 Elementary Organic Chemistry

CHEM 342 Elementary Organic Chemistry  
Laboratory

BIOCHEM 501 Introduction to Biochemistry

Option 2:

CHEM 343 Organic Chemistry I

CHEM 344 Introductory Organic Chemistry  
Laboratory

CHEM 345 Organic Chemistry II

**Inorganic Chemistry** 4

CHEM 311 Chemistry Across the Periodic Table

**Physical Chemistry** 3CHEM 561 Physical Chemistry  
or CHEM 565 Biophysical Chemistry**Electives**Complete Chemistry electives to total 22 credits<sup>1</sup>

1

CHEM 346 Intermediate Organic Chemistry Laboratory is recommended. BIOCHEM 501 Introduction to Biochemistry, CIV ENGR 500 Water Chemistry, CBE 440 Chemical Engineering Materials, CBE 540 Polymer Science and Technology, are also recommended elective options.

## COMMUNICATION SCIENCES AND DISORDERS, BSE

### OVERVIEW

**Admissions to the Communication Sciences and Disorders BSE have been suspended as of fall of 2023 and will be discontinued as of fall 2026. If you have any questions, please contact the department.**

**Note: Applications to the undergraduate Communication Sciences and Disorders program in the School of Education will not be accepted after the summer of 2023. Current students are encouraged to apply prior to this time, and should contact an advisor in the School of Education Student Services office (see Contact Information) to discuss modified eligibility requirements. Students must complete their degree requirements no later than the summer of 2026.**

**UW-Madison continues to offer a degree in Communication Sciences and Disorders (<https://csd.wisc.edu/undergraduate/>) through the College of Letters and Science.**

The major in communication sciences and disorders provides students with opportunities for study in the areas of speech-language pathology,

audiology, and the normal aspects of speech, hearing, and language. Most students pursue this major because they hope to work as a licensed and certified clinical speech-language pathologist or audiologist, assisting clients with communication impairments arising from acquired neurological conditions, developmental conditions, genetic conditions, or unknown causes. Professional clinical practice follows completion of a master's degree in speech-language pathology, or a Doctor of Audiology degree. Some students pursue the undergraduate major as a foundation for a research career in speech, language or hearing sciences. Others pursue the major as a preliminary step toward advanced training in other professional fields (e.g., medicine, nursing, special education), or as a liberal arts degree that could lead to a variety of different career paths (speech-language pathology assistant, educational assistant, line therapist).

The major in communication sciences and disorders can be completed through the College of Letters & Science or through the School of Education. Students select one program to follow and should be aware that the two programs differ somewhat in their requirements. Moreover, each program (L&S and Education) has its own general liberal studies requirements. Students should plan to complete many of these general requirements as well as some courses in communication sciences and disorders during their first and second years on this campus.

The department is accredited in speech-language pathology and in audiology by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (ASHA). Therefore, academic courses and clinical practica in the Department of Communication Sciences and Disorders may be applied toward clinical certification by ASHA (speech language pathology or audiology), and toward state licensure.

## HOW TO GET IN

**Admissions to the Communication Sciences and Disorders BSE have been suspended as of fall of 2023 and will be discontinued as of fall 2026. If you have any questions, please contact the department.**

### PROGRAM ADMISSION OVERVIEW

The School of Education's Communication Sciences and Disorders program currently accepts students during both fall and spring semesters. Prospective applicants typically begin taking the three-course "gateway course" sequence (detailed below) as sophomores.

### ENTERING THE SCHOOL OF EDUCATION

#### ADMISSION TO THE SCHOOL OF EDUCATION AS A "PRE-PROFESSIONAL" STUDENT

New freshmen and transfer students interested in communication sciences and disorders are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in communication sciences and disorders receive the "pre-professional" classification of PRS.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1618)). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 to schedule an appointment with an advisor.

## TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

## STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

## APPLICATION AND ADMISSION

The communication sciences and disorders degree program currently accepts students during both fall and spring semesters. Requirements and selection criteria may be modified from one application/admission period to the next.

## CRITERIA FOR PROGRAM ADMISSION

### Eligibility for consideration requires:

- Fifty-four (54) or more transferable semester credits (junior standing) completed by the end of the semester prior to admission. Students can first apply during the semester that they will be completing 54 or more credits.

- A cumulative grade-point average of at least a 2.75 (on a 4.0 scale) based on all college-level coursework attempted (as modified by the Last 60 Credits Rule; see below). Grade-point averages are calculated from both Madison campus coursework and coursework taken at any other colleges or universities.<sup>1</sup>
- Completion of the "gateway courses," CS&D 201 Anatomy and Physiology of Speech Production (3 cr), CS&D 202 Normal Aspects of Hearing (3 cr), and CS&D 240 Language Development in Children and Adolescents (3 cr). If any "gateway" courses were taken on another campus, then the first three Communication Sciences and Disorders courses taken at UW–Madison become the "gateway" courses.
- A minimum 3.0 GPA across CS&D 201, CS&D 202, and CS&D 240 the first time these courses are attempted. If any "gateway" course was taken on another campus, students must earn a minimum 3.0 GPA on the first three communication and sciences disorders courses taken at UW–Madison. Note that "gateway" courses may **not** be repeated for the purpose of raising the student's "gateway" course GPA.
- A cumulative GPA of at least a 3.0 on all major coursework completed to date, excluding CS&D 110 Introduction to Communicative Disorders.
- Completed program application (see details below).
- Note: In previous years, applicants to teacher education programs were required to submit scores from one of the following exams: ACT, SAT, Praxis I/PPST, Praxis Core, or GRE. Under emergency rules announced by the Wisconsin Department of Public Instruction, no applicants need to submit scores for any exam as a component of their application to this program. The exam requirement was officially removed by the School of Education on November 15, 2017.

1

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## APPLICATION PROCEDURES

Submit completed program application materials specified on the School of Education's Undergraduate Admissions (<http://>

www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/) page. Official transcripts from all other colleges or universities attended are required. Applications cannot be processed unless a complete academic record is presented for consideration.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education’s Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic

advisors can offer suggestions for courses that meet the requirement and augment the student’s primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

#### Complete Liberal Studies Electives (p. 1554) to total 40 Credits.

### PROGRAM STRUCTURE

The School of Education undergraduate degree provides students with a conceptual background in the field of communication sciences and disorders and includes five categories of coursework:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major* coursework offers in-depth study of foundations for clinical practice.
- *Discipline-related* coursework supports the major coursework.
- *Education* coursework examines many aspects of the educational enterprise, including child development and learning, societal expectations of schools and instruction, and teaching methods.
- *Elective* coursework is taken to meet the minimum of 120 credits required for the degree.

The School of Education’s Bachelor of Science degree in Communication Sciences and Disorders is one path toward eventual clinical practice, though a graduate degree is required for licensure. Thus, students must plan on graduate studies if they intend to pursue Wisconsin State licensure. Not all students eligible for admission to the undergraduate degree program can be accepted to the Master’s degree program on this

campus. Many students obtain their undergraduate degrees from UW–Madison and complete their Master’s degree and licensing requirements at another institution.

## MAJOR REQUIREMENTS

Complete all the courses listed below. At least 15 credits of upper-level major coursework (courses number 300–699) must be taken in residence on the UW–Madison campus for graduation.

Students must complete the three "gateway" courses—CS&D 201, CS&D 202, and CS&D 240—to be eligible for admission. Prospective applicants typically begin taking the three-course "gateway" sequence as sophomores. A grade point average of 3.0 or better must also be earned across these three courses the first time these courses are attempted.

Code	Title	Credits
CS&D 201	Anatomy and Physiology of Speech Production	3
CS&D 202	Normal Aspects of Hearing	3
CS&D 210	Neural Basis of Communication	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 303	Speech Acoustics and Perception	3
CS&D 315	Phonetics and Phonological Development	3
CS&D 318	Voice, Craniofacial, and Fluency Disorders	3
CS&D 320	Introduction to Audiology	3
CS&D 371	Pre-Clinical Observation of Children and Adults	3
CS&D 425	Auditory Rehabilitation	3
CS&D 440	Child Language Disorders, Assessment and Intervention	3

## DISCIPLINE-RELATED COURSEWORK

The Communication Sciences and Disorders program requires both major and related coursework. Related coursework is mandatory, but not considered part of the major or calculated into the major grade point average. This coursework may be used to satisfy Liberal Studies requirements, if appropriate.

Note: The American Speech–Language–Hearing Association (ASHA) standards now specify that a course in each of the following areas is required for ASHA certification.

- Biological sciences
- Physical sciences (chemistry or physics)
- Statistics
- Social/behavioral sciences

Code	Title	Credits
<b>Required Course</b>		
RP & SE 300	Individuals with Disabilities	3
<b>Select a statistics course; the following are recommended:</b>		<b>3-4</b>
STAT 301	Introduction to Statistical Methods	

STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
SOC/ C&E SOC 360	Statistics for Sociologists I	
<b>Humanities</b>		<b>3</b>
Select one of the following:		
ENGL 314	Structure of English	
ENGL 316	English Language Variation in the U.S.	
LINGUIS 101	Human Language	
LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	
<b>Ethnic Studies</b>		<b>3-4</b>
Select one of the following:		
ANTHRO 104	Cultural Anthropology and Human Diversity	
ASIAN AM 101	Introduction to Asian American Studies	
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	
SOC 134	Sociology of Race & Ethnicity in the United States	
SOC/ ASIAN AM 220	Ethnic Movements in the United States	
<b>Science</b>		<b>3-4</b>
Select one of the following:		
ANTHRO 105	Principles of Biological Anthropology	
PHYSICS 103	General Physics	
PHYSICS 109	Physics in the Arts	
GEN&WS 103	Gender, Women, Bodies, and Health	
BIOLOGY/ ZOOLOGY 101	Animal Biology	

## EDUCATION COURSEWORK

Code	Title	Credits
<b>Development</b>		<b>3</b>
Select one of the following (minimum 3 credits):		
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
PSYCH 460	Child Development	
<b>Learning</b>		
ED PSYCH 301	How People Learn (minimum 3 credits)	3
<b>Educational Policy Studies</b>		
ED POL 300	School and Society (minimum 3 credits)	3
<b>Literacy, including Reading</b>		
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3

**Additional Education Coursework****3**

Select 3 credits in School of Education electives. Required School of Education courses may not be applied toward this requirement.

**ELECTIVE COURSEWORK**

Select additional coursework to reach the minimum of 120 credits.

**GPA AND OTHER GRADUATION REQUIREMENTS****GRADUATION REQUIREMENTS**

Requirements below are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average in all major coursework
- 2.75 cumulative grade point average in all upper-level (300–699) major coursework
- 2.75 cumulative grade point average in all education coursework
- Major Residency. Degree candidates must complete at least 15 credits of upper-level major coursework (300–699) in residence on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Practicum work is considered part of the 30 credits.
- 40-Credit Rule. Students may not count more than 40 credits from one department within the 120 degree credits needed for graduation. For example, if 42 credits of coursework have been completed from the Department of Communication Sciences and Disorders, the student will need 122 credits to graduate. CS&D 110 does not count toward the 40 credits.
- 120 credits required for graduation.

**DEGREE AUDIT (DARS)**

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

**ADDITIONAL INFORMATION REGARDING CERTIFICATION**

A Master’s degree in Speech-Language Pathology (Communication Sciences and Disorders) is required to work as a public school speech-language pathologist in Wisconsin, and most states. The Master’s degree prepares graduates to function competently and independently in public school programs, hospitals, rehabilitation centers, birth-to-three programs, or clinics. At UW–Madison the Bachelor of Science degree can be earned in the School of Education and the Master’s degree is earned in the Department of Communication Sciences and Disorders, part of the College of Letters & Science. Student teaching and other professional education courses will be taken while earning the Bachelor’s and Master’s degrees. Not all students who apply for admission can be accepted into the Master’s degree program.

For detailed information about the Master’s program, see the Communication Sciences & Disorders Guide page (<http://guide.wisc.edu/graduate/communication-sciences-disorders/communication-sciences-disorders-ms/>) and the departmental website (<https://csd.wisc.edu/masters/>).

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Ability to successfully integrate subject knowledge and pedagogy knowledge flexibly in authentic situations through field experiences with secondary students under the supervision of highly qualified, experienced teachers and university supervisors.
2. Students will be prepared for recommendation for initial licensure in the state of Wisconsin and beyond in accordance with state standards.

**FOUR-YEAR PLAN**

**Communication Sciences and Disorders: Sample Four-Year Plan**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and the Course Guide to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Quantitative Reasoning A	3	CS&D 201 or 202	3
Liberal Studies course work	9-12	Ethnic Studies (from discipline-related course list)	3
		RP & SE 300	3
		Liberal Studies course work	3-6
	<b>15</b>		<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits
CS&D 202 or 201	3	CS&D 210	3
CS&D 240	3	Statistics (from discipline-related course list)	3
Choose one of:	3	Liberal Studies or General Elective course work	9
ED PSYCH 320			
ED PSYCH 321			
PSYCH 460			
Quantitative Reasoning B	3		
Science (from discipline-related course list)	3		
	<b>15</b>		<b>15</b>

### Junior

Fall	Credits	Spring	Credits
CS&D 303	3	CS&D 318	3
CS&D 315	3	CS&D 440	3
CS&D 320	3	ED POL 300	3
Linguistics (from discipline-related course list)	3	CURRIC 305 (also meets Communication B)	3
Liberal Studies or General Elective course work	3	Liberal Studies or General Elective course work	3
	<b>15</b>		<b>15</b>

### Senior

Fall	Credits	Spring	Credits
Liberal Studies or General Elective course work	12	CS&D 371	3

ED PSYCH 301	3	CS&D 425	3
		School of Education Elective	3
		Liberal Studies or General Elective course work	6
	<b>15</b>		<b>15</b>

**Total Credits 120**

## ADVISING AND CAREERS

### COMMUNICATION SCIENCES AND DISORDERS ADVISING

Students **must** consult with an undergraduate advisor in the Department of Communication Sciences and Disorders (Goodnight Hall, 1975 Willow Drive) as soon as a decision has been made to major in this field. Course sequencing in the major is not flexible—certain courses are requisites to others, and many courses are offered only once a year. Please visit the department's website (<https://csd.wisc.edu/undergraduate.htm>) for details on advising and advisors.

Students should also consult with advising staff in the School of Education Student Services office, see below. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

#### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-

world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## PEOPLE

Information about faculty, staff, and other contributors to the program can be found on the Communication Sciences and Disorders (<https://csd.wisc.edu/directory/>) or Curriculum and Instruction (<http://ci.education.wisc.edu/>) departmental websites.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## EARLY CHILDHOOD EDUCATION, MINOR

Students with a special interest in teaching young children should consider this minor, which leads to certification from birth through grade 3.

The Early Childhood Education (ECE) minor was designed to be completed in tandem with the Elementary Education: Kindergarten through Grade 9 (p. 1634) certification program; only students completing the K-9 option may declare this minor.

## HOW TO GET IN

This minor may be completed only by students admitted to the Kindergarten - Grade 9 (p. 1634) named option of Elementary Education (p. 1625).

## REQUIREMENTS

Complete the following course work in addition to the degree requirements of Elementary Education. Certification in Early Childhood requires the completion of the Elementary Education degree program. The three requirements listed here will also fulfill the 6 credits of electives required for Elementary Education.

Code	Title	Credits
CURRIC 660	Foundations of Early Childhood Education	3
CURRIC 663	Learning Environments for Initial Education Programs	3
Complete 3 credits of Elementary Education K-9 program electives, excluding these two required courses <sup>1</sup>		3
<b>Total Credits</b>		<b>9</b>

1

Not required if completing both Early Childhood and English as a Second Language minors.

## EARTH SCIENCE, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), ([studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu)) by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

Complete a minimum of 24 credits from the following departments: Astronomy (<http://guide.wisc.edu/courses/astron/>), Atmospheric and Oceanic Sciences ([http://guide.wisc.edu/courses/atm\\_ocn/](http://guide.wisc.edu/courses/atm_ocn/)), Geoscience (<http://guide.wisc.edu/courses/geosci/>), and Geography (<http://guide.wisc.edu/courses/geog/>). Only Geography courses designated as Physical Science may be used toward the minor requirements. At least 10 credits of the 24 credits must be numbered 200 or above. A minimum 2.75 grade point average is required, based on all UW-Madison coursework included in this minor.

## ECONOMICS, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Economics is housed in the College of Letters & Science. Students may wish to consult with an economics undergraduate advisor to discuss course selection and other issues related to this field of study. Academic advising (<https://econ.wisc.edu/undergraduate/academic-advising/>) is available in Room 7238 of the Social Science Building. Email: [econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu). ([econadvise@ssc.wisc.edu](mailto:econadvise@ssc.wisc.edu))

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

The Economics minor requires a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all Economics minor coursework taken on the UW-Madison campus.

Students completing the Economics minor must complete at least one semester of calculus. Mathematics coursework may be applied toward the liberal studies requirement.

Code	Title	Credits
<b>Introduction to Microeconomics and Macroeconomics</b>		
Complete one of the following:		4-7
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics-Accelerated Treatment	
<b>Intermediate Microeconomic Theory</b>		<b>3-4</b>
ECON 301 or ECON 311	Intermediate Microeconomic Theory Intermediate Microeconomic Theory - Advanced Treatment	
<b>Intermediate Macroeconomic Theory</b>		<b>3-4</b>
ECON 302 or ECON 312	Intermediate Macroeconomic Theory Intermediate Macroeconomic Theory - Advanced Treatment	
<b>Statistics</b>		
Select one of the following, or an approved substitute:		3-4
ECON 310	Statistics: Measurement in Economics (preferred)	
STAT 301	Introduction to Statistical Methods	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
<b>Economics Elective</b>		
Select one of the following (ECON 330 or 464 are preferred):		3-4
ECON 330	Money and Banking	
ECON 464	International Trade	
ECON 410	Introductory Econometrics	
ECON 441	Analytical Public Finance	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	



ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care
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ECON 664	Issues in International Trade
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ECON 666	Issues in International Finance
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**If needed, additional Economics coursework to reach the minimum of 24 credits.**

## ELEMENTARY EDUCATION, BSE

The University of Wisconsin–Madison Elementary Education Program prepares teachers to foster high academic achievement in all students. Schools are places that can both increase equity and perpetuate injustice – ideas our students tackle as they learn to navigate the challenges and joys of teaching. Our graduates become teacher leaders committed to advancing justice through classroom practices, personal interactions, and community engagement. We teach research-based practices that keep teachers growing throughout long careers in education.

Practical, hands-on experience is built into our curriculum. At UW–Madison, our students learn to teach through exhilarating coursework, supervised field experiences at multiple grade levels, community-based experiences, rigorous self-examination, and authentic learning experiences. We are training teachers to recognize, appreciate and value the wide range of gifts diverse students bring to our increasingly multicultural, globally connected, and morally complex world.

*“My instructors play a huge role in helping me become the person that I am today. They value who I am as a person and a learner, and through their influences and passion for teaching students of color, I have been inspired to do the same.”*

– Mai Ya Her, UW-Madison

Elementary Education

### CERTIFICATION OPTIONS

Students interested in Elementary Education can pursue one of five dynamic certification options that lead to related, yet different, career paths. All certification options are designed to be completed in four semesters after program admission. Students are admitted once a year in the summer and begin a four-semester professional sequence in the fall.

- **Kindergarten through Ninth Grade** – Students completing this core program option will be certified to teach general education at the grade levels of K-9 and will also be eligible to teach in a 4K classroom.
- **English as a Second Language (ESL) K-12 (p. 1646) and Kindergarten through Ninth Grade (p. 1634)** – A minor in English as a Second Language can be added to the core K-9 program. Students selecting this combination will be certified to teach general education at the grade levels of K-9 (including eligibility for 4K) and English as a Second Language in grades K-12.
- **Early Childhood Education (ECE) (p. 1623) and Kindergarten through Ninth Grade (p. 1634)** – A minor in Early Childhood can also be added to the core K-9 program. Students selecting this combination will be certified to teach general education at the grade levels of K-9 (including eligibility for 4K) and in Early Childhood Education from birth through Grade 3.

- **Kindergarten through Ninth Grade (p. 1634), and Early Childhood Education (p. 1623), and English as a Second Language K-12 (p. 1646)** – Students may opt to complete both the ECE and ESL minors in combination with K-9 certification. Successful students receive certification in all three areas: general education in grades K-9 (including eligibility for 4K), Early Childhood Education from birth through Grade 3, and English as a Second Language in grades K-12.
- **Kindergarten through Ninth Grade and Special Education K-12 (Dual Certification) (p. 1748)** – Students interested in both Elementary and Special Education should investigate the new Elementary Education and Special Education degree housed in the Department of Rehabilitation Psychology and Special Education. Upon completion, students are certified in general education at the grade levels of K-9 (including eligibility for 4K), and Special Education in grades K-12.

### THE TEACHER PLEDGE

The School of Education at UW-Madison currently offers a unique financial opportunity for students in the Elementary Education program called The Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/>). The school pledges to pay the equivalent of in-state tuition and fees for all teacher education students. In return, students pledge to work at a Wisconsin PreK-12 school for three to four years after graduation.

### MADISON COLLEGE TRANSFER AGREEMENT

Madison College students should also investigate the new transfer agreement (<https://tec.education.wisc.edu/become-a-teacher/uw-madison-school-of-education-transfer-agreement/>) between Madison College and UW-Madison. Students meeting the requirements of this agreement are guaranteed admission to UW-Madison’s School of Education and to Elementary Education.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Students are admitted to the program once a year, effective in the summer. Selection is made the previous spring and students begin a four-semester professional sequence in the subsequent fall semester.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and transfer students interested in Elementary Education are admitted directly to the School of Education with a “pre-professional” classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in Elementary Education receive the “pre-professional” classification of PRE.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A

minimum GPA of 2.5, based on UW–Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1626)). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) to schedule an appointment with an advisor.

## PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW–Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW–Madison requires a separate application and admission process. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu>) for application information. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu).

## STUDENTS WITH A PREVIOUS DEGREE

Prospective students who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person, via telephone or online; to schedule, call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu).

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

## APPLICATION AND ADMISSION

Certification to teach Elementary Education requires that a student be admitted into the professional part of the degree program. Admission into the Elementary Education program occurs once a year, effective for summer following selection.

The Elementary Education program faculty selects candidates based on a variety of criteria. In particular they seek individuals who can demonstrate academic competence, multicultural and interpersonal competence, and reflective practices; the program also purposefully cultivates students' capacities in these domains.

## PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants should

consult the School of Education's Undergraduate Admissions page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be eligible for admission to the professional program, applicants must:

- submit completed program application form(s), transcripts, and all other related application materials by the application deadline specified on the School of Education's Undergraduate Admissions page.
- successfully complete at least 40 transferable college-level credits by the end of the fall semester before application.
- complete RP & SE 300 Individuals with Disabilities by the end of the summer before beginning the professional sequence if applying to the K-9/Special Education Dual Major option.
- While GPA is a factor in the selection process, no minimum is required to apply for program admission. If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by the program and the School of Education each semester after admission.

### Last 60 Credits Rule

For programs requiring a minimum GPA to apply, two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information regarding this rule is available here (p. 1545).

## PROGRAM ADMISSION SELECTION CRITERIA

The Elementary Education program admissions procedures are intended to result in an academically qualified student body that is diverse in terms of both academic strengths and life experiences and has a commitment to providing the best possible education to elementary and middle school students. Having students with diverse life experiences, backgrounds and attitudes is critical if faculty are to prepare students to teach in schools that themselves have diverse enrollments. Faculty will accept only those students judged to have the potential to be successful in the academically challenging Elementary Education Program. In making admissions decisions, no factor will outweigh judgment that a particular applicant's credentials, taken as a whole, represent unacceptably high academic risk.

### The Admissions Committee will take the following into consideration when making admissions decisions: Academic Competence

The Mission Statement of the Elementary Education Area points to the role that our graduates have in creating academically rigorous classrooms that lead to high academic achievement in all students. For elementary and middle schools to promote academic achievement, elementary and middle school teachers must have demonstrated high levels of success in core disciplines throughout their university studies. Therefore, program faculty expect that

students admitted to the program will have demonstrated high levels of academic preparation.

### Multicultural and Interpersonal Competencies

The Elementary Education program's mission is to prepare teachers who are able to promote academic achievement in all elementary-school and middle-school students. This includes those from diverse races, cultures, language backgrounds, family forms, and sexual orientations, as well as those from diverse economic, gender, and ability groups. The program faculty seek prospective teachers who will demonstrate both commitment to this mission and the prospect of contributing to it. The Admissions Committee will therefore examine the materials from each candidate for evidence of such commitment and prospect.

### Reflective Competence

To have performed at high academic levels or to have had diverse life experiences is not adequate for admissions purposes unless these are accompanied by evidence that the applicant has been able to reflect on and learn from them. Demonstration of reflective competence is important as it likely contributes to one's interpersonal skills as well as to the qualities such as integrity, social awareness, and cultural sensitiveness that are qualities of a well-rounded human being who will be an excellent elementary or middle school teacher. The ability to reflect on one's life experiences is one factor that will allow the Admissions Committee to look for evidence that our students will be reflective practitioners who evaluate the effects of their assumptions, choices, and actions on others (students, parents, and other professionals in the learning community) and who will actively seek out opportunities to grow professionally.

## CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK-12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Teacher Education Center, [tec@education.wisc.edu](mailto:tec@education.wisc.edu), ([tec@education.wisc.edu](mailto:tec@education.wisc.edu)) about the potential impact of this result on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the Teacher Education Center.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world.

Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth—Humanities/Literature/Arts: 6 credits</li> <li>• Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth—Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete** Liberal Studies Electives (p. 1554) to total **40 Credits**.

## PROGRAM STRUCTURE

Students of Elementary Education:

- Are exposed to a broad range of academic disciplines through *liberal studies* course work. The university-wide *General Education* requirements also encourage this breadth of study.
- Examine schools' relationship to society, the development of children and adolescents, and the processes of learning in their *education course work*.
- Study teaching methods and gain experience in schools through supervised field placements during their four-semester *professional sequence*.
- Complete *elective* coursework to reach the minimum of 120 credits required for the degree.

*Practicum* experiences provide a school-based setting for students to develop their professional and classroom skills. These experiences generally begin a few weeks after the start of the semester and are approximately nine weeks in length. Students will usually spend three half-days at their assigned schools. Concurrent registration in methods courses provide students with an opportunity to learn about, and then apply, teaching techniques in a classroom.

The *full-semester student teaching assignment* is the capstone experience of the professional sequence. Through it students expand upon the activities, responsibilities and expectations encountered during the practicum experiences. Student teachers will function as regular staff members in their assigned schools and also attend a seminar on campus one afternoon each week. Student teachers are required to follow the school day, school calendar, vacation days and policies of the school where they work.

## PROGRAM OPTIONS - SELECT ONE

View as listView as grid

- ELEMENTARY EDUCATION: EARLY CHILDHOOD/ENGLISH AS A SECOND LANGUAGE (P. 1632)
- ELEMENTARY EDUCATION: KINDERGARTEN - 9TH GRADE (P. 1634)
- ELEMENTARY EDUCATION: KINDERGARTEN - 9TH GRADE/SPECIAL EDUCATION KINDERGARTEN - 12TH GRADE DUAL CERTIFICATION (P. 1638)
- ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/CONTENT-FOCUSED MINOR (P. 1640)
- ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/ENGLISH AS A SECOND LANGUAGE (P. 1642)
- ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/SPECIAL EDUCATION DUAL CERT (P. 1644)

## ELECTIVE COURSEWORK

Complete additional courses as necessary to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS—REQUIRED FOR ALL PROGRAM OPTIONS

### GRADUATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Requirements below are based on UW-Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- 2.75 cumulative grade point average in the minor, if required.
- Minimum 120 credits (degree candidates only).
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300-699) in residence on the UW-Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW-Madison campus. Student teaching and practicum are considered part of the 30 credits.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program’s requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (<http://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-bse/#certificationlicensuretext>)

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Create and implement developmentally appropriate and challenging learning experiences that reflect high expectations for every learner, supporting learners to (1) develop deep understanding of content areas and their connections, and (2) apply understanding in meaningful ways.
2. Select and/or create and sequence individually supportive and challenging learning experiences that reflect knowledge of individual learners, curriculum, pedagogies, and relevance to all learners and their families.
3. Use a variety of teaching strategies, and evidence-based technologies and information resources to engage learners in meaningful learning activities that lead to content knowledge, critical thinking, creativity, innovation, self-evaluation, and self-directed learning. Use evidence to continually evaluate the effectiveness of these practices, and adjust these as needed to improve learner outcomes.
4. Collaborate with others to create supportive, inclusive, linguistically responsive, and safe learning environments that help all learners meet high standards and reach their full potential.
5. Choose, modify, and/or create multiple forms of unbiased formative and summative assessments to measure each learner’s progress toward instructional goals. Use assessment data gathered to respond to each learner’s strengths and needs in relation to short and long-term goals. Reflect on and justify planning decisions and ground one’s justifications in knowledge of learners, development, curriculum, pedagogies, and resources.
6. Use studies completed in science and mathematics, social sciences, the humanities, histories, languages, and the arts to inform and deepen their teaching of content areas and meeting learners’ needs.

## FOUR-YEAR PLAN

Refer to the available named options for more information on the four-year plans.

## ADVISING AND CAREERS

## ELEMENTARY EDUCATION ADVISING

Students not yet admitted to Elementary Education meet with their assigned advisor in the School of Education Student Services office, see

below. Students are assigned an additional departmental advisor when admitted to the professional component of their degree program.

## SCHOOL OF EDUCATION ADVISING

### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Curriculum and Instruction can be found on the department's website. (<http://ci.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

### ELEMENTARY EDUCATION AND THE WISCONSIN EXPERIENCE

**Field Experiences** – Students in the elementary education program have multiple field experiences in PreK-12 schools, culminating in a full-time student teaching experience following the semester of the cooperating school.

**Partnering with Community Organizations** – The elementary education team partners with area communities to assist with food delivery to families. Students volunteer with Girls on the Run (<https://www.girlsontherunscwi.org/>), a program designed to inspire girls of all abilities to embrace their inner strength and to build healthy social, emotional, and physical skills.

**Guest Speakers** – The department brings in speakers from the Madison Metropolitan School District's Restorative Justice, Welcoming Schools, and Mental Health and Wellness teams. Justice Everett Mitchell speaks to students about disrupting the Preschool to Prison pipeline, and Rudy Bankston has shared his story and his thoughts on teaching for social justice. The elementary education team partners with PBS Wisconsin by inviting guest speakers to share technology and teaching resources.

**Seeking Out Community Experiences** – We encourage our students to venture outside the classroom and get to know the families and communities of their pupils by attending a community activity such as a worship service or a community potluck. Students spend time in and around the attendance area of their schools to develop an understanding

of the places, people, spaces, and experiences that influence their pupils and consequently are brought to school.

**Field Trips** - While completing field experiences, students enjoy trips to places in the Madison community, such as the Madison Children's Museum (<https://madisonchildrensmuseum.org/>), Madison Public Library's Play Lab (<https://www.madisonpubliclibrary.org/kids/playlab/>), Allen Centennial Garden (<https://allencentennialgarden.wisc.edu/>), Centro Hispano (<https://www.micentro.org/>) and the Madison Literacy Network (<https://www.litnetwork.org/>).

**Study Abroad** - Our students are encouraged to explore cultures other than their own by participating in one of Curriculum & Instruction's exciting new study abroad (<https://studyabroad.wisc.edu/>) programs. The department offered two summer options in 2023, a 3-week summer course entitled, "Diversity and Community in the Galapagos Islands," and a 4-week class, "Social Foundations of Learning in Uganda."

**Additional Certifications, Majors, Minors, and Certificates** - Many students in the K-9 elementary education program also complete programs in other areas of interest. Certification minors in Early Childhood Education and/or English as a Second Language can be combined with the core K-9 program. The most popular additional majors are in Spanish, Environmental Studies, Education Studies, Psychology, and History. Certificates in Educational Policy Studies, Disability Rights and Services, Chican@ and Latin@ Studies and Environmental Studies are very popular, as are minors in Social Studies, English Language Arts, Math, and Science. These options complement the skills and knowledge acquired through elementary education coursework.

**Student Clubs and Organizations** - Elementary education students have multiple opportunities to participate in related organizations and activities such as Aspiring Educators of Wisconsin (<https://www.facebook.com/AspiringEducatorsUWMadison/>) and Game Design and Development (<https://games.education.wisc.edu/lab/>).

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students interested in certification must, in addition to completing UW-Madison's program requirements, also complete Wisconsin statutory requirements related to teacher education and certification requirements established by the Wisconsin Department of Public Instruction. Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. For additional certification requirements and information about applying for a license, see the Teacher Education Center (<https://tec.education.wisc.edu/current-students/>).

### APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all

certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### LICENSING LEVELS

The following licensing options will be offered at UW-Madison.

- The core Elementary Education licensing level will be Kindergarten through Grade 9. Early Childhood, and English as a Second Language Kindergarten through Grade 12, can be added to the K-9 option.
- Special Education will offer licensing at the Early Childhood level, Kindergarten through Grade 12 level, and a program option that licenses in both Early Childhood Special Education and K-12 Special Education. The new Elementary Education and Special Education degree certifies students in both Special Education Kindergarten through Grade 12 and Elementary Education Kindergarten through Grade 9.
- Secondary Education program areas will license in their subject area Grades 4 through 12, and also in English as a Second Language Kindergarten through Grade 12.
- World Language Education program areas will license at the Kindergarten through Grade 12 level.
- Students in special fields such as Art, Music, and Physical Education will be licensed at the Kindergarten through Grade 12 level
- Health and Library Media Specialist both license at the Kindergarten through Grade 12 level.
- Communication Sciences and Disorders (Speech-Language Pathology) will license at the K-12 level.

### WISCONSIN STATE LICENSING

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo/>). A background check will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission/>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW-Madison teacher certification students, the endorsement will come from the School of Education, L139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW-Madison requires that

1. all certification requirements are met;
2. student teaching (following the school district calendar) is completed;
3. final grades are posted and reviewed;
4. the degree is "posted" by the registrar's office (one to four weeks after graduation); and
5. a recommendation for certification is received from the program faculty.

The Wisconsin Department of Public Instruction may require an additional 6 to 8 weeks for license processing.

## LICENSING OUTSIDE OF WISCONSIN

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website (<https://education.uky.edu/accreditation/certification/states/>) that provides links to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to the School of Education Teacher Education Center at L139 Education Building, 1000 Bascom Mall, Madison, WI 53706, or by email ([educatorlicensing@education.wisc.edu](mailto:educatorlicensing@education.wisc.edu)) to be completed. You must complete your personal information on the form before sending it to the Teacher Education Center. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must also be completed before sending the form to the Teacher Education Center.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming; District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

# ELEMENTARY EDUCATION: EARLY CHILDHOOD/ ENGLISH AS A SECOND LANGUAGE

**Admissions to the Elementary Education: Early Childhood/English as a Second Language, BSE have been suspended as of summer 2023 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

## REQUIREMENTS

The Early Childhood/English as a Second Language option prepares teachers to work at the preschool and primary levels (approximately birth through age 8). Students are also certified in English as a Second Language at the Early Childhood level. Admitted students begin the four-semester professional sequence in the fall after admission.

The option coursework listed here is one component of the Elementary Education, BSE degree (p. 1627) requirements.

### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st/](http://guide.wisc.edu/courses/envir_st/)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

### Environmental Education courses

Code	Title	Credits
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY 240	Plants and Humans	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ ENVIR ST 339	Environmental Conservation	4



LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
PHYSICS 115	Energy and Climate	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**Mathematics for Elementary Teachers**

Code	Title	Credits
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics I	3

1

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this course. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about this course is available on the math department website.

**Professional Sequence**

Admitted students complete a four-semester sequence of professional courses beginning in the fall semester after program admission. Each semester of the sequence must be followed sequentially and taken in consecutive semesters.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 660	Foundations of Early Childhood Education	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
CURRIC 663	Learning Environments for Initial Education Programs	3
CURRIC 328	Arts Integration for Teaching and Learning	3
CURRIC 325	Educating Young English Learners	3
CURRIC 363	Practicum in Early Childhood Education in Kindergarten	3
<b>Semester 2</b>		
CURRIC 314	Becoming Literate in and out of Schools	3
CURRIC 370	Teaching Mathematics	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
CURRIC 326	Language Use and Acquisition in Early Childhood	3
CURRIC 367	Elementary Education Practicum II	3
<b>Semester 3</b>		
CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
CURRIC 315	Reading and Writing Across the Curriculum in Early Childhood	3

CURRIC 327	Methods of Teaching Young English Learners	3
CURRIC 373	Elementary Teaching Practicum III	3

**Semester 4**

CURRIC 468	Early Childhood/English as a Second Language Student Teaching	10
CURRIC 463	Seminar in Elementary Education	2

**Related Courses**

These related courses focus on children and families and are recommended (not required) for students interested in early childhood education.

**Related Courses**

Code	Title	Credits
CNSR SCI 475	Family Economics	3
HDFS 262	Development of the Young Child	3
HDFS 464	Play-Development and Role Across the Lifespan	3
HDFS 469	Family and Community Influences on the Young Child	3
HDFS 471	Parent - Child Relations	3
HDFS 474	Racial Ethnic Families in the U.S.	3
PHILOS 104	Special Topics in Philosophy for Freshmen	3
PSYCH 311	Issues in Psychology	1-4
SOC 120	Marriage and Family	3-4
PSYCH 460	Child Development (formerly numbered 560)	3-4
SOC WORK 206	Introduction to Social Policy	4

**FOUR-YEAR PLAN**

**Elementary Education: Sample Four-Year Plan**

**Early Childhood/English as a Second Language Option**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and the Course Guide to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	12-15	Ethnic Studies	3
		Liberal Studies course work	9-12
<b>15</b>		<b>15</b>	

**Sophomore**

Fall	Credits	Spring	Credits
CURRIC 319		3 Quantitative Reasoning B	3
Environmental Education	3-5	Additional Liberal Studies or General Elective course work	12
Liberal Studies course work		7-9	
		<b>15</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 325		3 CURRIC 314	3
CURRIC 328		3 CURRIC 326	3
CURRIC 550		3 CURRIC 370	3
CURRIC 660		3 CURRIC/RP & SE 506	3
CURRIC 663		3 CURRIC 367	3
CURRIC 363		3	
		<b>18</b>	<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
CURRIC 315 (also meets Communication B)		3 CURRIC 463	2
CURRIC 327		3 CURRIC 468	10
CURRIC 371		3	
CURRIC 372		3	
CURRIC 373		3	
		<b>15</b>	<b>12</b>

**Total Credits 120**

# ELEMENTARY EDUCATION: KINDERGARTEN - 9TH GRADE

## REQUIREMENTS

The core program in Elementary Education requires 60 credits of professional coursework in addition to other degree requirements. Students are certified to teach kindergarten through grade 9 (K-9) and can also teach at the 4K level.

The option coursework listed here is one component of the Elementary Education, BSE degree (<https://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-education-bse/#requirements>) requirements.

### PROFESSIONAL SEQUENCE

The professional coursework was designed to be completed in four semesters, starting in the fall after admission to the program. Each semester of the sequence must be followed sequentially and taken in consecutive semesters unless a modification is approved. Most classes must be taken during specified semesters, while the scheduling of other

requirements is more flexible; some may be completed prior to beginning the sequence.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 312	ESL/Bilingual Issues	3
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
CURRIC 339	Cultural Foundations of Learning and Development 1	3
CURRIC/RP & SE 406	Race, Intersectionality, and Equity in Education 1	3
ED POL 300 or ED POL/ HISTORY 412	School and Society 2 History of American Education	3
	Required Program Elective 1 2	3
<b>Semester 2</b>		
CURRIC 318	Teaching Reading and Writing	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2 1	3
CURRIC 372	Teaching Science	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
CURRIC 340	Elementary Education Practicum I	3
<b>Semester 3</b>		
CURRIC 370	Teaching Mathematics	3
CURRIC 371	Teaching Social Studies	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
CURRIC 367	Elementary Education Practicum II	3
	Required Program Elective 2 2	3
<b>Semester 4</b>		
CURRIC 463	Seminar in Elementary Education	2
CURRIC 464 or CURRIC 454	Student Teaching in the Elementary School Student Teaching in the Middle School	10

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

2

May be taken any time before semester 4 of the professional sequence, including prior to program admission. Enrollment in either ED POL 300 or ED POL/HISTORY 412 can follow this schedule.

### ELECTIVE COURSES

The professional sequence includes 6 credits selected from the following options. Additional courses that expand a student's skill set or further a student's knowledge as a future teacher may also be considered to meet this requirement. Contact the Elementary Education Program Manager for approval prior to enrolling in additional courses. The frequency in which the listed courses are offered can vary based on teaching schedules as well as student interest.

## Elective Course Options

Code	Title	Credits
ART ED 321	Introduction to Teaching Art	2
COMP SCI 402	Introducing Computer Science to K-12 Students	2
CURRIC 209	Digital Media and Literacy	3
CURRIC 277	Videogames & Learning	3
CURRIC/ MUSIC 300	Principles of Music Education	2
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts	3
CURRIC/ CHICLA 306	Latinx Literacies	3
CURRIC 309	Reading and Writing Across the Content Areas	3
CURRIC 311	Language Acquisition and Use In and Out of Schools	3
CURRIC 314	Becoming Literate in and out of Schools	3
CURRIC 315	Reading and Writing Across the Curriculum in Early Childhood	3
CURRIC 316	ESL/Bilingual Methods	3
CURRIC 317	Dimensions of Literacy	3
CURRIC/ CHICLA 321	Chicano/Latino Educational Justice	3
CURRIC 328	Arts Integration for Teaching and Learning	3
CURRIC 331	Taking Education Outside of School	3
CURRIC 338	The Language of Schooling	3
CURRIC 357	Game Design I	3
CURRIC/SLAVIC/ THEATRE 362	Drama for Teaching and Learning	3
CURRIC 368	The Teaching of Reading	3
CURRIC 369	The Teaching of Language Arts	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
CURRIC 432	Game Design II	3
CURRIC 500	Literacy and Language Development	3
CURRIC 504	Literacy Assessment and Intervention	3
CURRIC/ED POL/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3
CURRIC/ED POL/ RELIG ST 516	Religion and Public Education	3
CURRIC/ THEATRE 525	Theatre in Education	3-4
CURRIC 632	Literature and Literacy	3
CURRIC 660	Foundations of Early Childhood Education	2-3
CURRIC 663	Learning Environments for Initial Education Programs	3
CURRIC/ ED POL 677	Education, Health and Sexuality: Global Perspectives and Policies	3
ED POL 300	School and Society	3

ED POL/ HISTORY 412	History of American Education	3
KINES 325	Group Development and Behavior Management	3
L I S 622	Childrens Literature	3
RP & SE 300	Individuals with Disabilities	3

## CONTENT AREA MINOR (OPTIONAL REQUIREMENT)

Students may elect to complete a minor in one of the following content areas. Minors provide a depth of study in a particular area of interest and also inform classroom instruction. Upon completion, the minor will be posted on the UW-Madison transcript, **but students will not receive an additional certification in the subject area.** The Wisconsin Department of Public Instruction no longer offers content licenses in association with the K-9 educator license.

The completion of a minor is required to teach middle school licensing in some states and may benefit students particularly interested in teaching at this level. Choose from the links below for more details about the requirements of each minor.

### Minor Options

- Biology (p. 1614)
- Chemistry (p. 1616)
- Earth Science (p. 1623)
- Economics (p. 1624)
- English (p. 1649)
- English Language Arts (p. 1646)
- Geography (p. 1650)
- History (p. 1653)
- Mathematics (p. 1660)
- Mathematics and Science Dual (p. 1658)
- Mathematics Specialized (p. 1660)
- Physics (p. 1661)
- Political Science (p. 1662)
- Psychology (p. 1666)
- Science Specialized (p. 1666)
- Social Studies (p. 1667)
- Sociology (p. 1676)

## ADDITIONAL CERTIFICATION OPTIONS IN ELEMENTARY EDUCATION

Students interested in Early Childhood Education (birth-Grade 3) and/or English as a Second Language (grades K-12) may earn certification in these areas along with the completion of the K-9 program. It is also possible to combine K-9 Elementary Education with K-12 Special Education certification through the completion of this named option (p. 1638).

**The Early Childhood Education (ECE) certification** minor (p. 1623) requires an additional 6 credits of required coursework, CURRIC 660 Foundations of Early Childhood Education, CURRIC 663 Learning Environments for Initial Education Programs, and only 3 credits of K-9 electives for a total of 63 credits. The K-9 professional sequence listed above will be modified to accommodate the ECE minor; see the ECE/K-9 Four Year Plan (p. 1636) for this sequence.

**The English as a Second Language (ESL) certification** minor (p. 1646) requires an additional 9 credits of required coursework, CURRIC 311 Language Acquisition and Use In and Out of Schools, CURRIC 338 The Language of Schooling, CURRIC 316 ESL/Bilingual Methods, and only 3 credits of K-9 electives for a total of 66 credits. The K-9 professional sequence listed above will be modified to accommodate the ESL minor; see the ESL/K-9 Four Year Plan (p. 1636) for this sequence.

**Certification in both Early Childhood Education and English as a Second Language** requires the completion of the five additional required ECE and ESL courses listed above. These courses will fulfill the entire K-9 electives requirement for a total of 69 credits. The K-9 professional sequence listed above will be modified to accommodate both minors; see the ECE/ESL/K-9 Four Year Plan (p. 1636) for this sequence.

**Certification in both K-9 Elementary Education and K-12 Special Education** requires the completion of the Kindergarten - 9th Grade/ Special Education Kindergarten - 12th Grade Dual Certification named option (p. 1638); 70 credits are required.

## FOUR-YEAR PLAN

### Elementary Education: Sample Four-Year Plans

These sample four-year graduation plans reflect the certification options available to students completing a degree in Elementary Education. A plan is included for:

- Kindergarten - Grade 9 Certification
- Early Childhood Education/Kindergarten - Grade 9 Certifications
- English as a Second Language/Kindergarten - Grade 9 Certifications
- English as a Second Language/Early Childhood Education/Kindergarten - Grade 9 Certifications
- Special Education Kindergarten - Grade 12/Kindergarten - Grade 9 Certifications

Four-year plans are designed to guide your course selection throughout your academic career; they do not establish a contractual agreement. Use them along with your DARS report and Course Search and Enroll to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

## KINDERGARTEN - GRADE 9 CERTIFICATION

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	12-15	Quantitative Reasoning A work	3
		Ethnic Studies	3
		Liberal Studies course work	6-9
<b>15</b>		<b>15</b>	

### Sophomore

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies or General Elective course work	15
Liberal Studies course work	7		
Liberal Studies or General Elective course work	5		
<b>15</b>		<b>15</b>	

### Junior

Fall	Credits	Spring	Credits
CURRIC 312	3	CURRIC 318 (Also meets Communication B)	3
CURRIC 319 <sup>1</sup>	3	CURRIC 320 <sup>1</sup>	3
CURRIC 339 <sup>1</sup>	3	CURRIC 372	3
CURRIC/RP & SE 406 <sup>1</sup>	3	CURRIC 550	3
ED POL 300 or 412 (412 also meets U.S./European History) <sup>2</sup>	3	CURRIC 340	3
Required Program Elective 1 <sup>2</sup>	3		
<b>18</b>		<b>15</b>	

### Senior

Fall	Credits	Spring	Credits
CURRIC 370	3	CURRIC 463	2
CURRIC 371	3	CURRIC 454 or 464	10
CURRIC/RP & SE 506	3		
CURRIC 367	3		
Required Program Elective 2 <sup>2</sup>	3		
<b>15</b>		<b>12</b>	

### Total Credits 120

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

2

May be taken any time before semester 4 of the professional sequence, including prior to program admission. Enrollment in either ED POL 300 or ED POL/HISTORY 412 can follow this schedule.

A minimum of 120 credits is still required to complete the degree.

## EARLY CHILDHOOD EDUCATION/ KINDERGARTEN - GRADE 9 CERTIFICATIONS

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	9-12	Quantitative Reasoning A work	3
		Ethnic Studies	3

	Liberal Studies course work	6-9	
	<b>12</b>		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies or General Elective course work	15
Liberal Studies course work	10		
Liberal Studies or General Elective course work	2		
	<b>15</b>		<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 312	3	CURRIC 318 (Also meets Communication B)	3
CURRIC 319 <sup>1</sup>	3	CURRIC 320 <sup>1</sup>	3
CURRIC 339 <sup>1</sup>	3	CURRIC 372	3
CURRIC/RP & SE 406 <sup>1</sup>	3	CURRIC 550	3
CURRIC 660 <sup>1</sup>	3	CURRIC 340	3
ED POL 300 or 412 (412 also meets U.S./European History) <sup>2</sup>	3	Required Program Elective <sup>2</sup>	3
	<b>18</b>		<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
CURRIC 370	3	CURRIC 463	2
CURRIC 371	3	CURRIC 464 or 468	10
CURRIC/RP & SE 506	3		
CURRIC 663 <sup>2</sup>	3		
CURRIC 367	3		
	<b>15</b>		<b>12</b>

**Total Credits 120**

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

2

May be taken any time before semester 4 of the professional sequence, including prior to program admission. Enrollment in either ED POL 300 or ED POL/HISTORY 412 can follow this schedule.

A minimum of 120 credits is still required to complete the degree.

**ENGLISH AS A SECOND LANGUAGE/ KINDERGARTEN - GRADE 9 CERTIFICATIONS**

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	9-12	Quantitative Reasoning A	3
		Ethnic Studies	3

	Liberal Studies course work	6-9	
	<b>12</b>		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies or General Elective course work	12
Liberal Studies course work	7		
Liberal Studies or General Elective course work	5		
	<b>15</b>		<b>12</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 311	3	CURRIC 318 (Also meets Communication B)	3
CURRIC 312	3	CURRIC 320 <sup>1</sup>	3
CURRIC 319 <sup>1</sup>	3	CURRIC 338	3
CURRIC 339 <sup>1</sup>	3	CURRIC 372	3
CURRIC/RP & SE 406 <sup>1</sup>	3	CURRIC 550	3
ED POL 300 or 412 (412 also meets U.S./European History) <sup>2</sup>	3	CURRIC 340	3
	<b>18</b>		<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
CURRIC 316	3	CURRIC 463	2
CURRIC 370	3	CURRIC 454 or 464	10
CURRIC 371	3		
CURRIC/RP & SE 506	3		
CURRIC 367	3		
Professional Program Elective <sup>2</sup>	3		
	<b>18</b>		<b>12</b>

**Total Credits 120**

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

2

May be taken before semester 4 of the professional sequence, including prior to program admission. Enrollment in either ED POL 300 or ED POL/HISTORY 412 can follow this schedule.

A minimum of 120 credits is still required to complete the degree.

**EARLY CHILDHOOD EDUCATION/ENGLISH AS A SECOND LANGUAGE/KINDERGARTEN - GRADE 9 CERTIFICATIONS**

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3

Liberal Studies course work	9-12 Ethnic Studies	3
	Quantitative Reasoning A	
	Liberal Studies course work	6-9
		<b>12</b>
		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 Liberal Studies or General Elective course work	12
Liberal Studies or General Elective course work		9	
		<b>12</b>	<b>12</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 311		3 CURRIC 318 (also meets Communication B)	3
CURRIC 312		3 CURRIC 320 <sup>1</sup>	3
CURRIC 319 <sup>1</sup>		3 CURRIC 338	3
CURRIC 339 <sup>1</sup>		3 CURRIC 550	3
CURRIC/RP & SE 406 <sup>1</sup>		3 CURRIC 371	3
CURRIC 660 <sup>1</sup>		3 CURRIC 340	3
		<b>18</b>	<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
CURRIC 316		3 CURRIC 463	2
CURRIC 370		3 Complete one of:	10
CURRIC 372		3 CURRIC 454	
CURRIC/RP & SE 506		3 CURRIC 464	
CURRIC 663 <sup>2</sup>		3 CURRIC 468	
CURRIC 367		3 ED POL 300 or 412 <sup>2</sup>	3
		<b>18</b>	<b>15</b>

**Total Credits 120**

<sup>1</sup> May be taken before semester 1 of the professional sequence, including prior to program admission.

<sup>2</sup> CURRIC 663 may be taken before semester 4 of the professional sequence, including prior to program admission. ED POL 300 and ED POL/HISTORY 412 may be taken at any time, including prior to program admission. A minimum of 120 credits is still required to complete the degree.

**SPECIAL EDUCATION KINDERGARTEN - GRADE 12/KINDERGARTEN - GRADE 9 CERTIFICATIONS**

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)		3 Communication A (fall or spring semester)	3
Liberal Studies course work		9-12 Quantitative Reasoning A	3

	RP & SE 300	3
	Liberal Studies course work	5-8
		<b>12</b>
		<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B		3 Liberal Studies course work	7
Ethnic Studies		3 Liberal Studies or General Elective course work	5
Liberal Studies course work		6	
		<b>12</b>	<b>12</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 319 <sup>1</sup>		3 CURRIC 318 (Also meets Communication B)	3
RP & SE 330 <sup>1</sup>		3 CURRIC 320 <sup>1</sup>	3
CURRIC/RP & SE 406 <sup>1</sup>		3 RP & SE 464	3
RP & SE 465		3 RP & SE 472	3
CURRIC 550		3 RP & SE 473	3
RP & SE 605 <sup>1</sup>		3 RP & SE 476	3
		<b>18</b>	<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
RP & SE/CURRIC 365		3 CURRIC 463	1
CURRIC 371		3 CURRIC 464	7
CURRIC 372		3 RP & SE 457	1
RP & SE 466		3 RP & SE 477	7
RP & SE 515		3	
CURRIC 373		3	
		<b>18</b>	<b>16</b>

**Total Credits 120**

<sup>1</sup> May be taken before semester 1 of the professional sequence, including prior to program admission. A minimum of 120 credits is still required to complete the degree.

**ELEMENTARY EDUCATION: KINDERGARTEN - 9TH GRADE/SPECIAL EDUCATION KINDERGARTEN - 12TH GRADE DUAL CERTIFICATION**

**REQUIREMENTS**

The Elementary Education Kindergarten - 9th Grade/Special Education Kindergarten - 12th Grade option requires 70 credits of professional

coursework in addition to other degree requirements. RP & SE 300 Individuals with Disabilities must also be completed prior to beginning the professional sequence.

The option coursework listed here is one component of the Elementary Education, BSE degree (<https://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-education-bse/#requirementstext>) requirements.

## INDIVIDUALS WITH DISABILITIES - PREREQUISITE FOR PROGRAM ADMISSION

This course must be completed by the end of the summer of the application year, before beginning the professional course sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

## PROFESSIONAL SEQUENCE

The professional coursework was designed to be completed in four semesters, starting in the fall after admission to the program. Each semester of the sequence must be followed sequentially and taken in consecutive semesters unless a modification is approved. Most classes must be taken during specified semesters, while other requirements may be completed prior to beginning the sequence.

Code	Title	Credits
<b>Semester 1 (Fall)</b>		
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities 1	3
CURRIC/ RP & SE 406	Race, Intersectionality, and Equity in Education 1	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
RP & SE 605	Development, Learning and Education Foundations in Special Education 1	3
<b>Semester 2 (Spring)</b>		
CURRIC 318	Teaching Reading and Writing	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2 1	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 472	Methods in Transition and Vocational Education	3
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 476	Special Education Practicum: Secondary (Grades 4-12)	3
<b>Semester 3 (Fall)</b>		
RP & SE/ CURRIC 365	Teaching Mathematics in Inclusive Settings	3
CURRIC 371	Teaching Social Studies	3

CURRIC 372	Teaching Science	3
RP & SE 466	Diversity in Special Education	3
RP & SE 515	Access to the General Curriculum for Students with Disabilities	3
CURRIC 373	Elementary Teaching Practicum III	3
<b>Semester 4 (Spring)</b>		
CURRIC 463	Seminar in Elementary Education	1
CURRIC 464	Student Teaching in the Elementary School	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	7

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

A minimum of 120 credits is still required to complete the degree.

## CONTENT AREA MINOR (OPTIONAL REQUIREMENT)

Students may elect to complete a minor in one of the following content areas. Minors provide a depth of study in a particular area of interest and also inform classroom instruction. Upon completion, the minor will be posted on the UW-Madison transcript, but **students will not receive an additional certification in the subject area.** The Wisconsin Department of Public Instruction no longer offers content licenses in association with the K-9 educator license.

The completion of a minor is required to teach middle school licensing in some states and may benefit students particularly interested in teaching at this level. For more details about the requirements of each minor, choose from the links below.

### Minor Options

- Biology (p. 1614)
- Chemistry (p. 1616)
- Earth Science (p. 1623)
- Economics (p. 1624)
- English (p. 1649)
- English Language Arts (p. 1646)
- Geography (p. 1650)
- History (p. 1653)
- Mathematics (p. 1660)
- Mathematics and Science Dual (p. 1658)
- Mathematics Specialized (p. 1660)
- Physics (p. 1661)
- Political Science (p. 1662)
- Psychology (p. 1666)
- Science Specialized (p. 1666)
- Social Studies (p. 1667)
- Sociology (p. 1676)

## FOUR-YEAR PLAN

## Elementary Education

## Kindergarten - 9th Grade/Special Education K-12 Dual Certification

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and Course Search and Enroll to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

## Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	9-12	Quantitative Reasoning A work	3
		RP & SE 300	3
		Liberal Studies course work	5-8
	<b>12</b>		<b>14</b>

## Sophomore

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies course work	7
Ethnic Studies	3	Liberal Studies or General Elective course work	5
Liberal Studies course work	6		
	<b>12</b>		<b>12</b>

## Junior

Fall	Credits	Spring	Credits
CURRIC 319 <sup>1</sup>	3	CURRIC 318 (Also meets Communication B)	3
RP & SE 330 <sup>1</sup>	3	CURRIC 320 <sup>1</sup>	3
CURRIC/RP & SE 406 <sup>1</sup>	3	RP & SE 464	3
CURRIC 550	3	RP & SE 472	3
RP & SE 465	3	RP & SE 473	3
RP & SE 605 <sup>1</sup>	3	RP & SE 476	3
	<b>18</b>		<b>18</b>

## Senior

Fall	Credits	Spring	Credits
RP & SE/CURRIC 365	3	CURRIC 463	1
CURRIC 371	3	CURRIC 464	7
CURRIC 372	3	RP & SE 457	1
RP & SE 466	3	RP & SE 477	7
RP & SE 515	3		

CURRIC 373	3		
	<b>18</b>		<b>16</b>

## Total Credits 120

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

A minimum of 120 credits is still required to complete the degree.

## ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/CONTENT-FOCUSED MINOR

**Admissions to the Elementary Education: Middle Childhood through Early Adolescence/Content-Focused Minor have been suspended as of summer 2023 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

### REQUIREMENTS

The Middle Childhood–Early Adolescence/Content Focused Minor option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Admitted students begin the four-semester professional sequence in the fall after admission. Students complete a content area minor that may lead to licensing in that subject.

The option coursework listed here is one component of the Elementary Education, BSE degree (p. 1627) requirements.

#### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st/](http://guide.wisc.edu/courses/envir_st/)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

#### Environmental Education courses

Code	Title	Credits
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY 240	Plants and Humans	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3



GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
PHYSICS 115	Energy and Climate	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Fine Arts

Select 6 credits of fine arts coursework. These credits may also be applied toward the liberal studies requirement. See a list of fine arts courses under liberal studies (p. 1554).

### Mathematics for Elementary Teachers

Code	Title	Credits
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2	3

1

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

### Education Coursework

Code	Title	Credits
<b>Child and Adolescent Development</b>		<b>3-6</b>
Select one option:		
ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 320 & ED PSYCH 321	Human Development in Infancy and Childhood and Human Development in Adolescence <sup>1</sup>	

### Foundations of the Profession

6

Select 6 credits of coursework numbered below 600 from the Educational Policy Studies department.

Recommended courses include:

ED POL 300	School and Society
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ED POL/ HISTORY 412	History of American Education
ED POL 500	Topics on Social Issues and Education

1

With permission, PSYCH 460 Child Development (formerly 560) may be substituted for ED PSYCH 320 Human Development in Infancy and Childhood. Students are strongly encouraged to complete this requirement before program admission.

### Minor Requirement: Elementary Education

Elementary Education majors choosing the Content Focus option are required to complete a minor area of study that will lead to Wisconsin licensing in English Language Arts, Mathematics, Science or Social Studies. Students can select from the minors listed below or complete the equivalent Letters & Science major in the subject area. For more details about the requirements of each minor, choose from the links below.

- Biology (p. 1614)
- Chemistry (p. 1616)
- Earth Science (p. 1623)
- Economics (p. 1624)
- English (p. 1649)
- English Language Arts (p. 1646)
- Geography (p. 1650)
- History (p. 1653)
- Mathematics (p. 1660)
- Mathematics and Science Dual (p. 1658)
- Mathematics Specialized (p. 1660)
- Physics (p. 1661)
- Political Science (p. 1662)
- Psychology (p. 1666)
- Science Specialized (p. 1666)
- Social Studies (p. 1667)
- Sociology (p. 1676)

### Professional Sequence

Admitted students complete a four-semester sequence of professional courses. Effective fall, 2018, admitted students will begin the four-semester professional sequence in the fall after admission instead of the spring semester. Professional sequence coursework listed here may be reordered slightly as part of this transition. Each semester of the sequence must be followed sequentially and taken in consecutive semesters.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 364	Introduction to Education	3
CURRIC 309	Reading and Writing Across the Content Areas	3
<b>Semester 2</b>		
CURRIC 311	Language Acquisition and Use In and Out of Schools	3
CURRIC 367	Elementary Education Practicum II	3
CURRIC 368	The Teaching of Reading	3
CURRIC 370	Teaching Mathematics	3
CURRIC 372	Teaching Science	3
<b>Semester 3</b>		

CURRIC 369	The Teaching of Language Arts	3
CURRIC 371	Teaching Social Studies	3
CURRIC 373	Elementary Teaching Practicum III	3
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
<b>Semester 4</b>		
CURRIC 463	Seminar in Elementary Education	2
CURRIC 464	Student Teaching in the Elementary School	10
or CURRIC 454	Student Teaching in the Middle School	

## FOUR-YEAR PLAN

### Elementary Education: Sample Four-Year Plan

#### Middle Childhood through Early Adolescence/Content Focused Minor Option

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and the Course Guide to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

Note: Courses selected taken to meet liberal studies, Environmental Education and minor requirements may overlap and be applied to more than one requirement. Most minors require 24 credits; the plan reflects this number.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	12-15	Ethnic Studies	3
		Fine Arts course	3
		Course required for minor	3
		Liberal Studies course work	3-6
		<b>15</b>	<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
CURRIC 319	3	CURRIC 320	3
Environmental Education	3-5	ED POL/HISTORY 412 (also meets Liberal Studies U.S.or European History)	3
Course required for minor	3	ED PSYCH 331	3
Liberal Studies course work	4-6	Fine Arts course	3

	Course required for minor	3
		<b>15</b>
		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
CURRIC 309	3	CURRIC 311	3
CURRIC 364	3	CURRIC 368	3
Ed Pol course	3	CURRIC 370	3
Courses required for minor	6	CURRIC 372	3
		CURRIC 367	3
		<b>15</b>	<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
CURRIC 369 (also meets Communication B)	3	CURRIC 463	2
CURRIC 371	3	CURRIC 464 or 454	10
CURRIC/RP & SE 506	3		
CURRIC 373	3		
Course required for minor	3		
		<b>15</b>	<b>12</b>

**Total Credits 117**

## ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/ENGLISH AS A SECOND LANGUAGE

**Admissions to the Elementary Education: Middle Childhood Through Early Adolescence/English as a Second Language, BSE have been suspended as of summer 2023 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

## REQUIREMENTS

The Middle Childhood–Early Adolescence/English as a Second Language option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are also certified in English as a Second Language at the Middle Childhood–Early Adolescence levels. Admitted students begin the four-semester professional sequence in the fall after admission.

The option coursework listed here is one component of the Elementary Education, BSE degree (p. 1627) requirements.

### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st/](http://guide.wisc.edu/courses/envir_st/)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

**Environmental Education courses**

Code	Title	Credits
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY 240	Plants and Humans	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
PHYSICS 115	Energy and Climate	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

**Mathematics for Elementary Teachers**

Code	Title	Credits
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2	3

1

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

**Educational Arts or Educational Technology**

Select one of the following. Additional courses can be considered; consult with an advisor in Education Academic Services.

**Educational Arts or Educational Technology courses**

Code	Title	Credits
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
ART 338	Service Learning in Art	2
COM ARTS 155	Introduction to Digital Media Production	4
COM ARTS 200	Introduction to Digital Communication	3
COM ARTS 325	Media and Human Behavior	3
COM ARTS 346	Critical Internet Studies	3
COM ARTS/ CHICLA 347	Race, Ethnicity, and Media	3
CURRIC 209	Digital Media and Literacy	3
CURRIC 277	Videogames & Learning	3
JOURN/COM ARTS/ HDFS 616	Mass Media and Youth	3
L I S 201	The Information Society	4
L I S 202	Informational Divides and Differences in a Multicultural Society	3
LSC 440	Digital Media and Science Communication	3
MUSIC 151	Basic Concepts of Music Theory	3
THEATRE/CURRIC/ SLAVIC 362	Drama for Teaching and Learning	3

**MC-EA Minor Requirement**

Students will complete a minor in English as a Second Language through their professional sequence coursework.

**Professional Sequence**

Each semester of the sequence must be followed sequentially and taken in consecutive semesters. Effective fall, 2018, admitted students will begin the four-semester professional sequence in the fall after admission instead of the spring semester. Professional sequence coursework listed here may be reordered slightly as part of this transition.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 311	Language Acquisition and Use In and Out of Schools	3
CURRIC 312	ESL/Bilingual Issues	3
CURRIC 317	Dimensions of Literacy	3
CURRIC 339	Cultural Foundations of Learning and Development	3
CURRIC 340	Elementary Education Practicum I	3
<b>Semester 2</b>		
CURRIC/ RP & SE 506	Strategies for Inclusive Schooling	3
CURRIC 338	The Language of Schooling	3
CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
CURRIC 367	Elementary Education Practicum II	3

**Semester 3**

ED POL 300	School and Society	3
CURRIC 316	ESL/Bilingual Methods	3
CURRIC 370	Teaching Mathematics	3
CURRIC 373	Elementary Teaching Practicum III	3
CURRIC 318	Teaching Reading and Writing	3

**Semester 4**

CURRIC 463	Seminar in Elementary Education	2
CURRIC 464	Student Teaching in the Elementary School	10
or CURRIC 454	Student Teaching in the Middle School	

**Senior**

Fall	Credits	Spring	Credits
ED POL 300		3 CURRIC 464 or 454	10
CURRIC 316		3 CURRIC 463	2
CURRIC 318 (also meets Communication B)		3	
CURRIC 370		3	
CURRIC 373		3	
		<b>15</b>	<b>12</b>

**Total Credits 117**

**FOUR-YEAR PLAN**

**Elementary Education: Sample Four-Year Plan**

**Middle Childhood through Early Adolescence/  
English as a Second Language Option**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and Course Search and Enroll to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	12-15	Ethnic Studies	3
		Liberal Studies course work	9-12
		<b>15</b>	<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
CURRIC 319	3	CURRIC 320	3
Environmental Education	3-5	Educational Arts or Educational Technology	2-4
Liberal Studies course work	7-9	Additional Liberal Studies or General Elective course work	8-10
		<b>15</b>	<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 311	3	CURRIC 338	3
CURRIC 312	3	CURRIC 371	3
CURRIC 317	3	CURRIC 372	3
CURRIC 339	3	CURRIC/RP & SE 506	3
CURRIC 340	3	CURRIC 367	3
		<b>15</b>	<b>15</b>

**ELEMENTARY EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/SPECIAL EDUCATION DUAL CERT**

**Admissions to the Elementary Education: Middle Childhood Through Early Adolescence/Special Education Dual Cert, BSE have been suspended as of summer 2023 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

**REQUIREMENTS**

The Middle Childhood–Early Adolescence/Dual Elementary and Special Education option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are certified in both Special Education and Elementary Education at the Middle Childhood–Early Adolescence levels. Admitted students begin the four-semester professional sequence in the fall following admission.

The option coursework listed here is one component of the Elementary/Special Education, BSE degree (p. 1627) requirements.

**RP & SE 300 Individuals with Disabilities—Admission Prerequisite**

This course must be completed prior to beginning the professional sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

**Environmental Education Requirement**

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st/](http://guide.wisc.edu/courses/envir_st/)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

**Environmental Education courses**

Code	Title	Credits
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3

BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY 240	Plants and Humans	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
PHYSICS 115	Energy and Climate	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Mathematics for Elementary Teachers

Code	Title	Credits
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2	3

1

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

### Education Coursework

Code	Title	Credits
<b>Child and Adolescent Development</b> <b>3-6</b>		
Select one:		
ED PSYCH 331	Human Development From Childhood Through Adolescence	

ED PSYCH 320 & ED PSYCH 321	Human Development in Infancy and Childhood and Human Development in Adolescence <sup>1</sup>	
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### Learning

ED PSYCH 301	How People Learn	3
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### Foundations of the Profession

Select one:		
ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education	

1

With permission, PSYCH 460 Child Development (formerly 560) may be substituted for ED PSYCH 320 Human Development in Infancy and Childhood. Students are strongly encouraged to complete this requirement before program admission.

### Professional Sequence

Admitted students complete a four-semester sequence of professional courses beginning in the fall semester after program admission. Each semester of the sequence must be followed sequentially and taken in consecutive semesters.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 364	Introduction to Education	3
CURRIC 368	The Teaching of Reading	3
CURRIC 369	The Teaching of Language Arts	3
CURRIC 367	Elementary Education Practicum II	3
RP & SE 466	Diversity in Special Education	3
<b>Semester 2</b>		
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	3-6
RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
<b>Semester 3</b>		
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
CURRIC 372	Teaching Science	3
CURRIC/ RP & SE 365	Teaching Mathematics in Inclusive Settings	3
CURRIC 371	Teaching Social Studies	3
CURRIC 373	Elementary Teaching Practicum III	3
<b>Semester 4</b>		
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1

CURRIC 464	Student Teaching in the Elementary School	7
CURRIC 463	Seminar in Elementary Education	1

CURRIC 372	3 RP & SE 477	7
CURRIC 373	3	
		<b>15</b>
		<b>16</b>

**Total Credits 114**

## FOUR-YEAR PLAN

### Elementary Education: Sample Four-Year Plan

#### Middle Childhood - Early Adolescence/ Special Education Dual Certification Option

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and the Course Guide to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	10-13	Ethnic Studies	3
		RP & SE 300	3
		Liberal Studies course work	5-8
		<b>13</b>	<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
CURRIC 319	3	CURRIC 320	3
Environmental Education	3-5	ED PSYCH 301	3
ED PSYCH 331	3	ED POL/HISTORY 412 (also meets Liberal Studies U.S./European History)	3
Liberal Studies course work	4-6	Additional Liberal Studies course work	5
		<b>15</b>	<b>14</b>

#### Junior

Fall	Credits	Spring	Credits
CURRIC 364	3	RP & SE 465	3
CURRIC 368	3	RP & SE 473	3
CURRIC 369 (also meets Communication B)	3	RP & SE 475	3
CURRIC 367	3	RP & SE/CURRIC 506	3
RP & SE 466	3		
		<b>15</b>	<b>12</b>

#### Senior

Fall	Credits	Spring	Credits
RP & SE 464	3	CURRIC 464	7
CURRIC/RP & SE 365	3	CURRIC 463	1
CURRIC 371	3	RP & SE 457	1

## ENGLISH AS A SECOND LANGUAGE, MINOR

*Ms. Yang's Class, by Jerry Jordan*

Students with a special interest in teaching English language learners should consider this minor, which leads to certification in English as a Second Language (ESL) from kindergarten through grade 12.

The ESL minor was designed to be completed in tandem with the Elementary Education: Kindergarten through Grade 9 (p. 1634) certification program; only students completing the K-9 option may declare this minor.

## HOW TO GET IN

This minor may be completed only by students admitted to the Kindergarten - Grade 9 (p. 1634) named option of Elementary Education (p. 1625).

## REQUIREMENTS

Complete the following course work in addition to the degree requirements of Elementary Education. Certification in English as a Second Language, Kindergarten through Grade 12 requires the completion of the Elementary Education degree program. The four requirements listed here will also fulfill the 6 credits of electives required for Elementary Education.

Code	Title	Credits
CURRIC 338	The Language of Schooling	3
CURRIC 311	Language Acquisition and Use In and Out of Schools	3
CURRIC 316	ESL/Bilingual Methods	3
	Complete 3 credits of Elementary Education K-9 program electives, excluding these three required courses. <sup>1</sup>	3
<b>Total Credits</b>		<b>12</b>

<sup>1</sup>

Not required if completing both ESL and Early Childhood minors.

## ENGLISH LANGUAGE ARTS, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to

teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

The English Language Arts minor requires the completion of 24 credits to include the requirements of each group of courses. A minimum cumulative grade point average of 2.75 is required, based on all UW-Madison coursework included in the minor.

The courses listed here will meet the requirements in each category, but additional courses can be considered.

### INTRODUCTORY LITERATURE

Complete two introductory literature courses. Courses with a Literature breadth designation from many departments—e.g., Comparative Literature, Classics, African Languages and Literature, English, or Theatre—may be selected to meet this requirement.

### INTERNATIONAL LITERATURE

Select one course from the following:

International Literature Courses		
Code	Title	Credits
<b>African Languages and Literature</b>		
AFRICAN/ FOLKLORE 210	The African Storyteller	3
AFRICAN 300	African Literature in Translation	3
AFRICAN 405	Topics in African Cultural Studies	3
AFRICAN 412	Contemporary African Fiction	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4
<b>Folklore</b>		
FOLKLORE 100	Introduction to Folklore	3

FOLKLORE/ AFRICAN 210	The African Storyteller	3
FOLKLORE 220	The Folk Tale	3
FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
FOLKLORE 317	The Irish Tradition (was 517 prior to fall, 2023)	3
FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3
FOLKLORE/ LITTRANS/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller	3
FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
FOLKLORE/ GEN&WS 428	Gender and Expressive Culture	3
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3
FOLKLORE 460	Folk Epics	3
FOLKLORE 510	Folklore Theory	3
FOLKLORE 518	The Scottish Tradition	3

### Any Literature in Translation course with the "L" breadth code

### AMERICAN SOCIAL LITERATURE

This requirement addresses cultural diversity from the perspective of race, ethnicity, class, gender, sexual orientation, or ability.

Select one course from the following:

American Social Literature courses		
Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 155	They: Race in American Literature	3
AFROAMER/ GEN&WS 222	Introduction to Black Women Writers	3
AFROAMER 225	Introduction to African American Dramatic Literature	3
AFROAMER 227	Masterpieces of African American Literature	3
AFROAMER 265	African-American Autobiography	3
AFROAMER/ GEN&WS 267	Artistic/Cultural Images of Black Women	3
AFROAMER 501	19th Century Afro-American Literature	3
AFROAMER 525	Major Authors	3
<b>American Indian Studies</b>		
AMER IND/ ENGL 172	Literatures of Native America	3
<b>English</b>		
ENGL 171	Literature, Gender, and Sexuality	3

ENGL 173	Ethnic and Multicultural Literature	3
ENGL/ GEN&WS 248	Women in Ethnic American Literature	3
ENGL/ GEN&WS 250	Women in Literature	3
ENGL/ ASIAN AM 270	A Survey of Asian American Literature	3
ENGL 461	Topics in Ethnic and Multicultural Literature	3
ENGL/ASIAN AM/ GEN&WS 464	Asian American Women Writers	3
ENGL/JEWISH 593	Literature of Jewish Identity in America	3
ENGL/ AFROAMER 672	Selected Topics in Afro-American Literature	3

## MASS COMMUNICATION

Select one course from the following:

### Mass Communication courses

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 303	Blacks, Film, and Society	3
<b>American Indian Studies</b>		
AMER IND 325	American Indians in Film	3
<b>Asian American Studies</b>		
ASIAN AM/ JOURN 662	Mass Media and Minorities	4
<b>Chican@ and Latin@ Studies</b>		
CHICLA/ COM ARTS 419	Latino/as and Media	3
<b>Communication Arts</b>		
COM ARTS 250	Survey of Contemporary Media	3
COM ARTS 350	Introduction to Film	3
COM ARTS 351	Television Industries	3
COM ARTS 355	Introduction to Media Production	4
<b>History</b>		
HISTORY/ JOURN 560	History of U.S. Media	4
<b>Journalism</b>		
JOURN 201	Introduction to Mass Communication	4
JOURN 561	Mass Communication and Society	4
JOURN 565	Effects of Mass Communication	4
JOURN/COM ARTS/ HDFS 616	Mass Media and Youth	3
<b>Life Sciences Communication</b>		
LSC 440	Digital Media and Science Communication	3

## SPEECH COMMUNICATION

Select one course from the following:

### Speech Communication courses

Code	Title	Credits
<b>Communication Arts</b>		
COM ARTS 260	Communication and Human Behavior	3
COM ARTS 262	Theory and Practice of Argumentation and Debate	3
COM ARTS 266	Theory and Practice of Group Discussion	3
COM ARTS 272	Introduction to Interpersonal Communication	3
COM ARTS 360	Introduction to Rhetoric in Politics and Culture	3
COM ARTS 368	Theory and Practice of Persuasion	3
COM ARTS 371	Communication and Conflict Resolution	3
<b>Theatre</b>		
THEATRE 150	Acting I: Introduction to Acting	3
THEATRE 250	Fundamentals of Acting	3

## ENGLISH COMPOSITION

Select one course from the following:

### English Composition courses

Code	Title	Credits
ENGL 201	Intermediate Composition	3
ENGL 207	Introduction to Creative Writing: Fiction and Poetry Workshop	3
ENGL 307	Creative Writing: Fiction and Poetry Workshop	3
ENGL 400	Advanced Composition	3
ENGL 407	Creative Writing: Nonfiction Workshop	3
ENGL 408	Creative Writing: Fiction Workshop	3
ENGL 409	Creative Writing: Poetry Workshop	3
ENGL 410	Creative Writing: Playwriting Workshop	3
ENGL 508	Creative Writing: Advanced Fiction Workshop	3

## ELECTIVES

Select any course from the areas above (excluding introductory literature) or from the following options to reach the minimum of 24 credits:

### Additional elective courses

Code	Title	Credits
ENGL 314	Structure of English	3
ENGL 316	English Language Variation in the U.S.	3
ENGL 416	English in Society	3
ENGL 417	History of the English Language	3
FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	3
LINGUIS 101	Human Language	3



LINGUIS/ ANTHRO 301	Introduction to Linguistics: Descriptive and Theoretical	3
LINGUIS 303	Historical Linguistics	3
LINGUIS/ ANTHRO 430	Language and Culture	3-4

ENGL 242	Literature and Culture II: from the 18th Century to the Present	3
ENGL 314	Structure of English (students are encouraged to take this course as early as possible)	3

Children's or Young Adult Literature chosen in  
consultation with advisor 3

### Shakespeare

Select one of the following: 3

ENGL 219	Shakespearean Drama
ENGL 220	Shakespearean Drama
ENGL 431	Early Works of Shakespeare
ENGL 432	Later Works of Shakespeare

### Elective

Select one English department elective numbered 204  
and above, except for ENGL 207 and ENGL 236 <sup>1</sup>

### Ethnic Literature

Select one 3-credit intermediate or advanced ethnic  
literature course <sup>2</sup>

### Applied English Linguistics

Select one of the following (listed in order of preference): 3

ENGL 516	English Grammar in Use
ENGL 417	History of the English Language
ENGL 316	English Language Variation in the U.S.
ENGL 416	English in Society
ENGL 414	Global Spread of English

### Composition for English Teachers

ENGL 304	Composition & Rhetoric In and Beyond the University
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Or, select a course in consultation with an advisor in the  
School of Education Student Services office.

### Additional Credits

If necessary, select additional coursework to reach the  
minimum of 24 credits. Introductory literature may be  
used.

1

Students considering a Letters & Science English major should select a  
pre-1800, non-Shakespeare literature course.

2

Search for Intermediate/Advanced-level courses that are designated as  
both Literature and Ethnic Studies courses in the enrollment application.

## GAME DESIGN, CERTIFICATE

### What is game design?

Game Design is the theory and practice of creating games. We focus on  
games broadly speaking – puzzles, toys, board games, role-playing, sports,  
or simply not stepping on the cracks in the sidewalk. Making games offers  
an opportunity for creative expression, for simulating real-world problems,  
for positive social change, and for communicating complex ideas about  
systems and processes.

### What is the Game Design Certificate?

## ENGLISH, MINOR

This minor may only be completed by students admitted to Elementary  
Education options leading to certification in K-9 or Middle Childhood  
through Early Adolescence. A minor is not required to complete the K-9  
certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also  
inform classroom instruction. The completion of a minor is required to  
teach middle school in some states and may benefit students particularly  
interested in teaching at this level.

The Department of English is housed in the College of Letters & Science.  
Students may wish to consult with an undergraduate advisor in English  
(<https://english.wisc.edu/undergraduate/undergraduate-advising/>) to  
discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the  
UW-Madison transcript. **Students will not receive an additional  
certification or license in the subject area as was possible prior to  
fall, 2022 program admission.** The Wisconsin Department of Public  
Instruction does not offer content licenses in association with the K-9  
educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary  
Education certification in either K-9 or Middle-Childhood-through-Early-  
Adolescence. The declaration form is located on the School of Education's  
Undergraduate Admissions page and can be submitted any time after  
admission into the program.

## REQUIREMENTS

The English minor requires the completion of 24-30 credits to include  
the coursework listed below. A minimum cumulative grade point average  
of 2.75 is required, based on all UW-Madison coursework included in the  
minor.

Note: Six credits of introductory literature must be completed prior to  
enrolling in coursework required for the English minor. Courses with an  
Literature breadth designation from many departments—e.g., Comparative  
Literature, Classical & Ancient Near Eastern Studies, African Languages  
and Literature, or Theatre and Drama—may be selected to meet this  
requirement. Students are encouraged to explore these options, although  
introductory English department coursework may also be used in this  
capacity.

Code	Title	Credits
<b>Required Courses</b>		
Complete the following:		
ENGL 241	Literature and Culture I: to the 18th Century	3

The Game Design Certificate is an interdisciplinary program that gives students from a wide variety of backgrounds the chance to make games. The certificate requires 18-19 credits and is jointly offered by the departments of Curriculum and Instruction, Art, and Computer Sciences. Certificate students work both independently and in small teams to develop a portfolio of board games, video games, and physical spaces. The certificate focuses on creating, testing, and understanding how to design gameplay to be fun and impactful.

### What will students gain?

Students acquire the skills, understanding, and background to create and produce games independently, to develop a body of work, and to gain critical perspectives on games and game design.

### How do I get involved?

Interested students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, 608-262-1651, or [studentservices@wisc.edu](mailto:studentservices@wisc.edu) ([studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu)), to discuss course sequencing, declaring, and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

## HOW TO GET IN

## DECLARATION PROCESS

To be eligible to declare the Game Design Certificate, students must complete two courses prior to submitting a certificate declaration. One course is required of all prospective certificate students:

Code	Title	Credits
CURRIC 357	Game Design I	3

The second course may be selected by the student from the following options:

Code	Title	Credits
ART 107	Introduction to Digital Forms	3
COMP SCI 200	Programming I	3
COMP SCI 220	Data Science Programming I	4
COMP SCI 300	Programming II	3

Students meeting the eligibility criteria who intend to complete the Game Design Certificate may find the declaration form on the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page. The declaration for this certificate program can be submitted at any time during the calendar year.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The Game Design certificate program includes both required and elective coursework for a minimum of 18 credits. All coursework must be taken for a letter grade. At least 10 credits of the certificate must be earned in residence at UW-Madison.

Students must have an overall 2.5 GPA in Game Design Certificate coursework upon completion of the certificate.

Code	Title	Credits
<b>Required Courses</b>		
CURRIC 277 or CURRIC 576	Videogames & Learning Topics in Game Design	3
CURRIC 357	Game Design I	3
CURRIC 432	Game Design II	3
ART 107	Introduction to Digital Forms	3
<b>Computer Science Elective</b>		
Select one of the following:		3
COMP SCI 200	Programming I	
COMP SCI 220	Data Science Programming I	
COMP SCI 300	Programming II	
<b>Arts Elective</b>		
Select one of the following:		3-4
ART 428	Digital Imaging Studio	
ART 429	3D Digital Studio I	
ART 528	Digital Interactive Studio	
ART 529	3D Digital Studio II	
ART 563	Graphic Design for Games	
ART 629	3D Digital Studio III	
THEATRE 230	Environment Design for Games and other Virtual Storytelling Spaces	
<b>Total Credits</b>		<b>18-19</b>

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Utilize the design and technical skills necessary to create games.
2. Discuss the critical and theoretical perspectives necessary to understand the production and reception contexts in/for which they design such games.

## PEOPLE

Information about faculty, staff, and other contributions to the Certificate in Game Design can be found on the Game Lab's website (<https://games.education.wisc.edu/>).

## GEOGRAPHY, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to

teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Geography (<https://geography.wisc.edu/>) is housed in the College of Letters & Science. Students may wish to consult with academic advisor Joel Gruley, [jgruley@wisc.edu](mailto:jgruley@wisc.edu), 144 Science Hall, 262-4438, to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

The Geography minor requires a minimum of 24 credits to include GEOG 342 and the required course distribution listed below. Each course may be counted in only one of the groups. Coursework must include at least two upper-level courses, numbered 300-699.

A minimum cumulative grade point average of 2.75 is required, based on all geography minor coursework taken on the UW-Madison campus.

## REQUIRED COURSE

Code	Title	Credits
GEOG 342	Geography of Wisconsin (Or an acceptable substitute selected in consultation with the undergraduate advisor in the Department of Geography. This course may be also used to fulfill the requirement in Area Studies and Global Systems)	3

## COURSE DISTRIBUTION REQUIREMENTS

Complete one course from each of the six groups:

### PHYSICAL GEOGRAPHY: EARTH SYSTEMS AND ENVIRONMENTAL PROCESSES

Courses address the locational arrangements of earth phenomena and their interaction as physical systems.

#### Physical Geography: Earth Systems and Environmental Processes course options

Code	Title	Credits
GEOG/ ENVIR ST 120	Introduction to the Earth System	3

GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/GEOSCI 320	Geomorphology	3
GEOG/ATM OCN/ ENVIR ST 322	Polar Regions and Their Importance in the Global Environment	3
GEOG/ ATM OCN 323	Science of Climate Change	3
GEOG/GEOSCI 326	Landforms-Topics and Regions	3
GEOG 329	Landforms and Landscapes of North America	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/ATM OCN/ ENVIR ST/ GEOSCI 335	Climatic Environments of the Past	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG 344	Changing Landscapes of the American West	3
GEOG/GEOSCI 420	Glacial and Pleistocene Geology	3
GEOG 523	Advanced Paleocology: Species Responses to Past Environmental Change	3
GEOG/ SOIL SCI 525	Soil Geomorphology	3
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	3
GEOG/ATM OCN/ ENVIR ST 528	Past Climates and Climatic Change	3

## PEOPLE-ENVIRONMENT INTERACTION

Courses examine human use, perception, and modification of environments.

#### People-Environment Interaction course options

Code	Title	Credits
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ENVIR ST/ SOIL SCI 230	Soil: Ecosystem and Resource	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ATM OCN/ ENVIR ST 332	Global Warming: Science and Impacts	3
GEOG/ ENVIR ST 333	Green Urbanism	3
GEOG/ ENVIR ST 337	Nature, Power and Society	3
GEOG/BOTANY 338	Environmental Biogeography	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context	3
GEOG 344	Changing Landscapes of the American West	3
GEOG/AMER IND/ ENVIR ST 345	Managing Nature in Native North America	3

GEOG 359	Australia: Environment and Society	3	GEOG 501	Space and Place: A Geography of Experience	3
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	3	GEOG/ URB R PL 503	Researching the City: Qualitative Strategies	3
GEOG/C&E SOC/ ENVIR ST 434	People, Wildlife and Landscapes	3	GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches	3
GEOG/ ENVIR ST 439	US Environmental Policy and Regulation	3-4	GEOG/ URB R PL 505	Urban Spatial Patterns and Theories	3
GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4	GEOG/ URB R PL 506	Historical Geography of European Urbanization	3
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	4	GEOG 507	Waste Geographies: Politics, People, and Infrastructures	3
GEOG/ SOIL SCI 526	Human Transformations of Earth Surface Processes	3	GEOG 510	Economic Geography	4
GEOG/ ENVIR ST 534	Environmental Governance: Markets, States and Nature	3	GEOG 511	Critical Social Theory	3
GEOG/ ENVIR ST 537	Culture and Environment	4	GEOG/ GEN&WS 514	Feminist Geography: Methodological Approaches	3
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	3	GEOG 518	Power, Place, Identity	3
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3	GEOG 566	History of Geographic Thought	3

## HUMAN GEOGRAPHY

Courses examine the location and organization of human settlements and activities.

### Human Geography course options

Code	Title	Credits
GEOG 101	Introduction to Human Geography	4
GEOG 104	Introduction to Human Geography	3
GEOG 300	Weird Geographies	3
GEOG 301	Revolutions and Social Change	3
GEOG 302	Economic Geography: Locational Behavior	4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG 307	International Migration, Health, and Human Rights	3
GEOG/CHICLA/ GEN&WS 308	Latinx Feminisms: Women's Lives, Work, and Activism	3
GEOG/INTL ST 311	The Global Game: Soccer, Politics, and Identity	3
GEOG/INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	3
GEOG 318	Introduction to Geopolitics	3
GEOG 340	World Regions in Global Context	3
GEOG 348	Latin America	4
GEOG 349	Europe	3
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	3
GEOG/ENVIR ST/ HISTORY 469	The Making of the American Landscape	4

## AREA STUDIES AND GLOBAL SYSTEMS

Courses focus on the ways in which regions, places, and landscapes have acquired distinctive characteristics and problems as a result of their locations and resource potentials, and of their settlement, appraisal, and use by particular peoples and cultures.

### Area Studies and Global Systems course options

Code	Title	Credits
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 342	Geography of Wisconsin	3
GEOG 348	Latin America	4
GEOG 355	Africa, South of the Sahara	3
GEOG/ ENVIR ST 557	Development and Environment in Southeast Asia	3

## CARTOGRAPHY AND GEOGRAPHIC INFORMATION SCIENCE

Courses examine the creation and use of maps.

### Cartography and Geographic Information Science course options

Code	Title	Credits
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	3

GEOG 370	Introduction to Cartography	4
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 371	Introduction to Environmental Remote Sensing	3
GEOG/ENVIR ST/ F&W ECOL/ G L E/GEOSCI/ LAND ARC 372	Intermediate Environmental Remote Sensing	3
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 378	Introduction to Geocomputing	4
GEOG 379	Geospatial Technologies: Drones, Sensors, and Applications	3
GEOG/ENVIR ST/ LAND ARC/ URB R PL 532	Applications of Geographic Information Systems in Planning	3
GEOG 572	Graphic Design in Cartography	3-4
GEOG 573	Advanced Geocomputing and Geospatial Big Data Analytics	4
GEOG 574	Geospatial Database Design and Development	4
GEOG 575	Interactive Cartography & Geovisualization	4
GEOG 576	Geospatial Web and Mobile Programming	4
GEOG 578	GIS Applications	4
GEOG 579	GIS and Spatial Analysis	4

## METHODOLOGY

Courses examine the skills, techniques and methodology necessary to conduct geographic investigation.

### Methodology course options

Code	Title	Credits
GEOG 170	Our Digital Globe: An Overview of GIScience and its Technology	3
GEOG 365	Geographical Traditions and Practices	3
GEOG 370	Introduction to Cartography	4
GEOG/CIV ENGR/ ENVIR ST 377	An Introduction to Geographic Information Systems	4
GEOG 500	Qualitative Strategies in Geography	3
GEOG 560	Advanced Quantitative Methods	3
GEOG 565	Colloquium for Undergraduate Majors (offered only in fall)	3
STAT 301	Introduction to Statistical Methods	3
STAT 324	Introductory Applied Statistics for Engineers	3
STAT 371	Introductory Applied Statistics for the Life Sciences	3

## HISTORY, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood

through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of History is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor in the department to discuss course selection and other issues related to this field of study.

Students have numerous advising resources available to them, including both professional and peer advisors. Information on the History advising team, how to contact an advisor, how to schedule an appointment, and drop-in advising hours can be found on the departmental website (<https://history.wisc.edu/undergraduate-program/undergraduate-advising/>). (<https://history.wisc.edu/undergraduate-program/undergraduate-advising/>)

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

The History minor requires a minimum of 24 credits. **No more than three courses may be numbered below 300.** A minimum cumulative grade point average of 2.75 is required, based on all history minor coursework taken on the UW-Madison campus.

## EUROPEAN HISTORY

Complete at least one course; includes British or Russian history.

### European History course options

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 119	Europe and the World, 1400-1815	4
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 123	English History: England to 1688	3-4

HISTORY 124	British History: 1688 to the Present	4	HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HIST SCI 201	The Origins of Scientific Thought	3	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HISTORY 201	The Historian's Craft (European topics)	3-4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4	HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4	HISTORY 417	History of Russia	3-4
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4	HISTORY 418	History of Russia	3-4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4	HISTORY 419	History of Soviet Russia	3-4
HISTORY 223	Explorations in European History (H)	3-4	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY 224	Explorations in European History (S)	3	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY 271	History Study Abroad: European History	1-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY 303	A History of Greek Civilization	3-4	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY 307	A History of Rome	3-4	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/ JEWISH 310	The Holocaust	3-4	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY/ HIST SCI 324	Science in the Enlightenment	3	HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4			
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4			
HISTORY 351	Seventeenth-Century Europe	3-4			
HISTORY 357	The Second World War	3-4			
HISTORY 358	French Revolution and Napoleon	3-4			
HISTORY 359	History of Europe Since 1945	3-4			
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3			
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4			
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3			
HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4			

## U.S. HISTORY

Complete at least one course.

### U.S. History course options

Code	Title	Credits
HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
HISTORY 102	American History, Civil War Era to the Present	4
HISTORY/ ED POL 107	The History of the University in the West	3
HISTORY 109	Introduction to U.S. History	3-4

HISTORY 136	Sport, Recreation, & Society in the United States	3-4	HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4
HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3	HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4
HISTORY 145	America and China, 1776-Today	3-4	HISTORY 329	History of American Capitalism	4
HISTORY 150	American Histories: The Nineteenth Century	4	HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY/ CHICLA 151	The North American West to 1850	3-4	HISTORY 344	The Age of the American Revolution, 1763-1789	3-4
HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4	HISTORY 345	Military History of the United States	3-4
HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4	HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4	HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY/ AMER IND 190	Introduction to American Indian History	3-4	HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY 201	The Historian's Craft (U.S. topics)	3-4	HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4	HISTORY 401	Public History Workshop	3
HIST SCI/ MED HIST 218	History of Twentieth Century American Medicine	3	HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	HISTORY/ ED POL 412	History of American Education	3
HISTORY 221	Explorations in American History (H)	3-4	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY 227	Explorations in the History of Race and Ethnicity	3	HISTORY 427	The American Military Experience to 1902	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
HISTORY/C&E SOC/ POLI SCI/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ CHICLA/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3	HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ ECON 466	The American Economy Since 1865	3-4
HISTORY 272	History Study Abroad: United States History	1-4	HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History	3	HISTORY 500	Reading Seminar in History (U.S. Topics)	3
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HIST SCI/ MED HIST 509	The Development of Public Health in America	3
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health	3
HISTORY 306	The United States Since 1945	3-4	HIST SCI/GEN&WS/ MED HIST 531	Women and Health in American History	3

HIST SCI/GEN&WS/ MED HIST 532	The History of the (American) Body	3	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HIST SCI/ GEN&WS 537	Childbirth in the United States	3	HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ JOURN 560	History of U.S. Media	4	HISTORY 340	Cultural History of Korea	3-4
HISTORY/L I S 569	History of American Librarianship	3	HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
HISTORY 607	The American Impact Abroad: The Historical Dimension	3	HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY/ ED POL 612	History of Student Activism from the Popular Front to Black Lives Matter	3	HISTORY/ ASIAN 363	China and World War II in Asia	3-4
HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3	HISTORY/ ASIAN 454	Samurai: History and Image	3-4
			HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4

## NON-WESTERN HISTORY (AFRICA, ASIA, LATIN AMERICA, MIDDLE EAST)

Complete one course; Russian history does not fulfill this requirement.

### African History course options

Code	Title	Credits
HISTORY 105	Introduction to the History of Africa	3-4
HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4
HISTORY 201	The Historian's Craft (African topics)	3-4
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 444	History of East Africa	3-4
HISTORY 445	History of Equatorial Africa	3-4

### Central or East Asian History course options

Code	Title	Credits
HISTORY/ASIAN 103	Introduction to East Asian History: China	3-4
HISTORY/ASIAN 104	Introduction to East Asian History: Japan	3-4
HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4
HISTORY 201	The Historian's Craft (Central or East Asian topics)	3-4
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	3-4

### South or Southeast Asian History course options

Code	Title	Credits
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4
HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
HISTORY 450	Making of Modern South Asia	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ ASIAN 463	Topics in South Asian History	3

### Latin American History course options

Code	Title	Credits
HISTORY 201	The Historian's Craft (Latin American Topics)	3-4
HISTORY 241	Latin America from 1780 to 1940	4
HISTORY/INTL ST/ LACIS 242	Modern Latin America	4
HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4



HISTORY/ CHICLA/LACIS/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3
HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3
HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4
HISTORY 533	Multi-Racial Societies in Latin America	3-4
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3

### Middle Eastern History course options

Code	Title	Credits
HISTORY 139	Introduction to the Modern Middle East	3-4
HISTORY 201	The Historian's Craft (Middle Eastern topics)	3-4
HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ MIEVEAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ POLI SCI 370	Islam and Politics	3-4

### ANCIENT/MEDIEVAL HISTORY

Complete one European or Non-Western history course with a focus on the European or Mediterranean area before C.E. 1500 or with the history of Africa or Asia before these areas fell heavily under European influence. This course may also be counted toward the fulfillment of the other distribution requirements above.

### Ancient/Medieval History course options

Code	Title	Credits
HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY/ MIEVEAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 115	Medieval Europe 410-1500	4
HISTORY 123	English History: England to 1688	3-4
HISTORY 200	Historical Studies (Ancient/Medieval topics)	3-4
HIST SCI 201	The Origins of Scientific Thought	3
HISTORY 201	The Historian's Craft (Ancient/ Medieval topics)	3-4

HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4
HISTORY 223	Explorations in European History (H) (Ancient/Medieval topics)	3-4
HISTORY 303	A History of Greek Civilization	3-4
HISTORY 307	A History of Rome	3-4
HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY/ MIEVEAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HIST SCI/ MIEVEAL 322	Ancient and Medieval Science	3
HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3
HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY/ ASIAN 454	Samurai: History and Image	3-4
HISTORY 457	History of Southeast Asia to 1800	3-4
HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
ILS 201	Western Culture: Science, Technology, Philosophy I	3

### HISTORICAL RESEARCH

Select one course. This course may also be counted toward the fulfillment of the other distribution requirements above. HISTORY 201 is specifically designed to be a research methods course and is strongly recommended. Multiple topics will be offered every fall and spring under this number.

### Historical Research course options

Code	Title	Credits
HISTORY 201	The Historian's Craft	3-4
HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY 418	History of Russia	3-4
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
HISTORY/ GEN&WS 519	Sexuality, Modernity and Social Change	3

HISTORY/ History of the Civil Rights Movement  
AFROAMER 628 in the United States

3

## ELECTIVES

Complete additional coursework, if necessary, to reach the minimum of 24 credits. It is recommended that students completing the history minor take a one-year continuous course in American history (e.g., HISTORY 101 Amer Hist to the Civil War Era, the Origin & Growth of the U S and HISTORY 102 American History, Civil War Era to the Present).

## MATHEMATICS AND SCIENCE DUAL, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

This minor is intended for Elementary Education majors wishing to enhance their content preparation in mathematics and science. It is particularly suitable for Elementary Education majors who intend to teach mathematics and science in the middle school.

A minimum cumulative grade point average of 2.75 is required, based on all minor coursework taken on the UW-Madison campus.

## MATHEMATICS COMPONENT

Students will contact a Student Services advisor or the Elementary Education Program Manager (see Contact Information) to choose a 12 credit group of mathematics courses that will

1. Deepen their understanding of the reasoning, problem solving strategies, models, mathematical tools, structures, and principles, which underlie core elementary mathematics topics relevant to K-12 math education and related to fractions and rational numbers, proportional reasoning, measurement, algebraic thinking, Geometry and Measurement, and Algebra and Functions.
2. Develop the important mathematical practices, or habits of mind, that can support the learning of mathematics.

## SCIENCE COMPONENT

The aim of the **science component** of this minor is for students to understand science as an intellectual activity. The goals of science and the diverse means by which scientific knowledge is generated and validated should be at the core of the science portion of this minor. Upon its completion, students should have had opportunities to understand some of the most powerful organizing ideas in the various scientific disciplines as well as how those ideas have been and are generated. Such an understanding should provide students with the fundamental tools and outlook necessary to teach the variety of science content typically taught in middle schools.

The committee that developed this science component has indicated that the primary purpose for the minor should be consistent with the goals of a liberal or general education, thus viewing the minor as an extension of the current liberal studies requirement. In addition to the 9 credits of science required for the liberal studies requirement, students completing this minor must also take 9 credits in science for the math-science dual minor. With these **18 credits** it is possible to provide a minimal level of breadth and depth of science coursework. This minor is also expected to provide Elementary Education program students with a background in the sciences that are most commonly taught at the middle school level.

Complete the following requirements:

- At least 18 credits from the courses listed below. Additional courses can be considered; please consult with an advisor in the School of Education Student Services office, 139 Education Building.
- One course in each of three of the four science areas of biology, chemistry, physics, and earth and space science from the approved list, below. Integrated Liberal Studies 153 does not count in any of the areas, but can count toward the 18 credit total.
- At least 6 credits of coursework from the courses listed below that are **not** marked with an asterisk (\*). Courses with the asterisk are considered to be introductory level courses.

The following courses are approved for inclusion in the science component of the math/science minor:

Code	Title	Credits
ILS 153	Ways of Knowing in the Sciences *	4

**Biology course options**

Code	Title	Credits
<b>Biochemistry</b>		
All courses numbered 500 and above		
<b>Biocore</b>		
All courses		
<b>Biology</b>		
BIOLOGY/ ZOOLOGY 101	Animal Biology *	3
BIOLOGY/ ZOOLOGY 102	Animal Biology Laboratory *	2
BIOLOGY/BOTANY/ ZOOLOGY 151	Introductory Biology *	5
BIOLOGY/BOTANY/ ZOOLOGY 152	Introductory Biology	5
<b>Botany</b>		
BOTANY 100	Survey of Botany *	3
BOTANY/ PL PATH 123	Plants, Parasites, and People *	3
BOTANY/ BIOLOGY 130	General Botany *	5
BOTANY/BIOLOGY/ ZOOLOGY 151	Introductory Biology *	5
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology *	3
All courses numbered 300 and above		
<b>Entomology</b>		
ENTOM/ ENVIR ST 201	Insects and Human Culture-a Survey Course in Entomology *	3
All courses numbered 300 and above		
<b>Forest and Wildlife Ecology</b>		
All courses numbered 300 and above		
<b>Genetics</b>		
All courses numbered 400 and above		
<b>Microbiology</b>		
MICROBIO 101	General Microbiology *	3
MICROBIO 102	General Microbiology Laboratory *	2
All courses numbered 300 and above		
<b>Plant Pathology</b>		
PL PATH/ BOTANY 123	Plants, Parasites, and People *	3
All courses numbered 300 and above		
<b>Zoology</b>		
ZOOLOGY/ BIOLOGY 101	Animal Biology *	3
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory *	2
ZOOLOGY/ BIOLOGY/ BOTANY 151	Introductory Biology *	5
ZOOLOGY/ BIOLOGY/ BOTANY 152	Introductory Biology	5

ZOOLOGY/ BOTANY/ ENVIR ST 260	Introductory Ecology *	3
ZOOLOGY/ ENTOM 302	Introduction to Entomology	4
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources	2-3

Courses numbered 350 and above

**Chemistry course options**

Code	Title	Credits
<b>Biochemistry</b>		
All courses numbered 500 and above		
<b>Chemistry</b>		
CHEM 103	General Chemistry I *	4
CHEM 104	General Chemistry II	5
CHEM 108	Chemistry in Our World *	5
CHEM 109	Advanced General Chemistry *	5
CHEM 115	Chemical Principles I *	5
CHEM 116	Chemical Principles II	5
All courses numbered 300 and above		

**Physics course options**

Code	Title	Credits
PHYSICS 103	General Physics *	4
PHYSICS 104	General Physics	4
PHYSICS 107	The Ideas of Modern Physics *	3
All courses numbered 200 and above		

**Earth and Space Science course options**

Code	Title	Credits
<b>Astronomy</b>		
ASTRON 103	The Evolving Universe: Stars, Galaxies, and Cosmology *	3
ASTRON 104	Our Exploration of the Solar System *	3
ASTRON 150	Topics in Astronomy	2
ASTRON 200	The Physical Universe *	3
ASTRON 236	The History of Matter in the Universe *	3
All courses numbered 200 and above		
<b>Atmospheric and Oceanic Studies</b>		
ATM OCN 100	Weather and Climate *	3
ATM OCN 101	Weather and Climate *	4
ATM OCN/ ENVIR ST/ GEOSCI 102	Climate and Climate Change *	3
ATM OCN/ GEOSCI 105	Survey of Oceanography *	3-4
ATM OCN/ ENVIR ST 171	Global Change: Atmospheric Issues and Problems *	2-3
All courses numbered 200 and above		
<b>Geography</b>		

GEOG/ ENVIR ST 120	Introduction to the Earth System *	3
GEOG/ENVIR ST 127	Physical Systems of the Environment *	5
All courses numbered 300 and above and designated as Physical Science		
<b>Geoscience</b>		
GEOSCI 100	Introductory Geology: How the Earth Works *	3
GEOSCI/ATM OCN/ ENVIR ST 102	Climate and Climate Change *	3
GEOSCI/ ATM OCN 105	Survey of Oceanography *	3-4
GEOSCI 110	Evolution and Extinction *	4
GEOSCI 202	Introduction to Geologic Structures	4
GEOSCI 204	Geologic Evolution of the Earth	4
GEOSCI 304	Geobiology	3
GEOSCI/GEOG 320	Geomorphology	3
GEOSCI/G L E 370	Elementary Petrology	3
GEOSCI/GEOG 420	Glacial and Pleistocene Geology	3
GEOSCI 430	Sedimentology and Stratigraphy	3
GEOSCI/G L E 455	Structural Geology	4
GEOSCI 456	Geologic Field Methods	2
All courses numbered 556 and above		

## MATHEMATICS SPECIALIZED, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

Complete a minimum of 22 credits to include the requirements listed below. A minimum cumulative grade point average of 2.75 is required, based on all minor coursework taken on the UW-Madison campus.

Code	Title	Credits
<b>Required Courses</b>		
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
STAT 301	Introduction to Statistical Methods	3
<b>Additional credits chosen from the following:</b>		
MATH 234	Calculus--Functions of Several Variables	4
MATH/ COMP SCI 240	Introduction to Discrete Mathematics	3
MATH 340	Elementary Matrix and Linear Algebra	3
MATH 461	College Geometry I	3
MATH/HIST SCI 473	History of Mathematics	3

## MATHEMATICS, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Mathematics is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor in the department to discuss course selection and other issues related to this field of study. The current list of advisors and the schedule of the office hours can be found at the departmental advising page (<https://www.math.wisc.edu/undergraduate/advising/>).

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted any time after admission into the program.

## REQUIREMENTS

Complete a minimum of 28 credits. A minimum cumulative grade point average of 2.75 is required, based on all UW-Madison coursework included in the minor.

Elementary Education students may also wish to consider the Specialized Mathematics minor, which exchanges some of the higher-level mathematics courses for a broader range of coursework in mathematics, computer sciences, and statistics. A mathematics/science dual minor option is also available.

The first 13 credits of the mathematics minor involves calculus-level coursework. Students may need to complete prerequisite coursework—e.g., MATH 112 Algebra, MATH 113 Trigonometry—to reach this proficiency level. These preparatory courses may be used to meet the liberal studies requirement, but may not be applied toward the credits required for the mathematics minor.

Code	Title	Credits
MATH 221	Calculus and Analytic Geometry 1	5
MATH 222	Calculus and Analytic Geometry 2	4
MATH 234	Calculus--Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
STAT 301	Introduction to Statistical Methods	3
MATH 441	Introduction to Modern Algebra	3
MATH 461	College Geometry I	3

Because of prerequisites and scheduling issues, the sequencing of this coursework requires careful planning to be completed in a timely fashion. Students are encouraged to consult with an advisor regarding the appropriate sequencing of these courses.

## PHYSICS, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Physics (<https://www.physics.wisc.edu/>) is housed in the College of Letters & Science. Students may wish to consult with

an undergraduate advisor in the physics department to discuss course selection and other issues related to this field of study.

To meet with a physics advisor, email [physics-advisors@wisc.edu](mailto:physics-advisors@wisc.edu).

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

## REQUIREMENTS

Complete a minimum of 22 credits. A minimum cumulative grade point average of 2.75 is required, based on all Physics minor coursework taken on the UW-Madison campus.

## INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Select one of the following First Introductory Courses:</b>		<b>5-6</b>
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
PHYSICS 247	A Modern Introduction to Physics <sup>1</sup>	
E M A 201 & E M A 202	Statics and Dynamics	
E M A 201 & M E 240	Statics and Dynamics	
<b>Select one of the following Second Introductory Courses:</b>		<b>5</b>
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
PHYSICS 248	A Modern Introduction to Physics	
<b>Select one of the following Third Introductory Courses:</b>		<b>3-4</b>
PHYSICS 249	A Modern Introduction to Physics	
PHYSICS 205	Modern Physics for Engineers	
PHYSICS/ E C E 235	Introduction to Solid State Electronics	
PHYSICS 241	Introduction to Modern Physics	

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Any combination of courses can be used to satisfy the three introductory course requirements, but students may not transfer into the PHYSICS 247, PHYSICS 248, PHYSICS 249 sequence from another introductory sequence.

## ADDITIONAL COURSE REQUIREMENTS

Code	Title	Credits
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	2
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
Select physics electives, if necessary, to total 22 credits		

## POLITICAL SCIENCE, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Political Science is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor (<https://polisci.wisc.edu/advising-and-major-information/#advising>) in the department to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall, 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

### HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

### REQUIREMENTS

Complete a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all political science minor coursework taken on the UW-Madison campus.

## REQUIRED COURSES

Code	Title	Credits
Complete any Political Science course numbered 100-199 (one course)		3-4
POLI SCI 205 or POLI SCI 405	Introduction to State Government State Government and Public Policy	3-4
Research Methods		
Complete one of the following:		3-4

POLI SCI 170	Research Methods in Political Science	
POLI SCI 270	Understanding Political Numbers	
POLI SCI 274	Political Choice and Strategy	
POLI SCI 348	Analysis of International Relations	
POLI SCI/ JOURN/ URB R PL 373	Introduction to Survey Research	

## DISTRIBUTION REQUIREMENTS

Complete at least one course from each of the four political science groups. Courses taken to meet the requirements above may be applied toward the course distribution.

### POLITICAL THEORY

#### Political Theory course options

Code	Title	Credits
POLI SCI 160	Introduction to Political Theory	3-4
POLI SCI 265	Development of Ancient and Medieval Western Political Thought	3-4
POLI SCI 360	History of American Political Thought	3-4
POLI SCI 361	Contemporary American Political Thought	3-4
POLI SCI 363	Literature and Politics	3-4
POLI SCI 364	Christian Political Thought	3-4
POLI SCI/ ILS/ITALIAN/ LITTRANS 365	Machiavelli and His World	3
POLI SCI 460	Topics in Political Philosophy	3-4
POLI SCI 463	Deception and Politics	4
POLI SCI/ GEN&WS 469	Women and Politics	3-4
POLI SCI/ AFROAMER 519	African American Political Theory	3-4
POLI SCI 590	Study Abroad Topics in Political Science: Political Theory	1-4

### AMERICAN GOVERNMENT

#### American Government course options

Code	Title	Credits
POLI SCI 104	Introduction to American Politics and Government	3-4
POLI SCI 184	Introduction to American Politics	3
POLI SCI 205	Introduction to State Government	3-4
POLI SCI 206	Introduction to Political Psychology	3-4
POLI SCI/ LEGAL ST 217	Law, Politics and Society	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4
POLI SCI 272	Introduction to Public Policy	3-4
POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI/ CHICLA 302	Mexican-American Politics	3-4

POLI SCI 304	The Political Economy of Race in the United States	3-4	POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4
POLI SCI 305	Elections and Voting Behavior	3-4	POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
POLI SCI 306	American Political Parties	3-4	POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
POLI SCI 311	United States Congress	3-4	POLI SCI 320	Governments and Politics of the Middle East and North Africa	3-4
POLI SCI 314	Criminal Law and Justice	3-4	POLI SCI 321	Latin-American Politics	3-4
POLI SCI 315	Legislative Internship	3	POLI SCI 322	Politics of Southeast Asia	3-4
POLI SCI 402	Wisconsin in Washington Internship Course	4	POLI SCI 324	Chinese Politics	3-4
POLI SCI 405	State Government and Public Policy	3-4	POLI SCI/ INTL ST 325	Social Movements and Revolutions in Latin America	3-4
POLI SCI 408	The American Presidency	3-4	POLI SCI/ INTL ST 327	Indian Politics in Comparative Perspective	3
POLI SCI 410	Citizenship, Democracy, and Difference	4	POLI SCI 328	Politics of East and Southeast Asia	3-4
POLI SCI 411	The American Constitution : Powers and Structures of Government	4	POLI SCI 329	African Politics	3-4
POLI SCI 412	The American Constitution: Rights and Civil Liberties	4	POLI SCI 330	Political Economy of Development	3
POLI SCI 414	The Supreme Court as a Political Institution	3	POLI SCI 332	German Politics	3-4
POLI SCI 416	Community Power and Grass Roots Politics	3	POLI SCI 334	Russian Politics	3-4
POLI SCI 417	The American Judicial System	3-4	POLI SCI 336	Democracy (and Its Uncertain Future)	4
POLI SCI/ PUB AFFR 419	Administrative Law	3-4	POLI SCI 338	The Civil-Military Paradox in U.S. Politics and Society	3
POLI SCI 470	The First Amendment	3-4	POLI SCI 339	Non-Democracies	3
POLI SCI 481	Honors Seminar on Race and Politics in the United States	3	POLI SCI/ JEWISH 341	Israeli Politics and Society	3-4
POLI SCI 490	Study Abroad Topics in Political Science: American Government	1-4	POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
POLI SCI 510	Politics of Government Regulation	3-4	POLI SCI/ HISTORY 370	Islam and Politics	3-4
POLI SCI 511	Campaign Finance	3-4	POLI SCI 421	The Challenge of Democratization	3-4
POLI SCI 515	Public Opinion	3-4	POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
POLI SCI/ AFROAMER 519	African American Political Theory	3-4	POLI SCI/ INTL ST 423	Social Mobilization in Latin America	3
POLI SCI 602	Wisconsin in Washington Advanced Public Policy Course	4	POLI SCI/ GEN&WS 429	Gender and Politics in Comparative Perspective	3-4

## COMPARATIVE POLITICS

### Comparative Politics course options

Code	Title	Credits			
POLI SCI 120	Introduction to Comparative Politics	4	POLI SCI/ INTL ST 431	Contentious Politics	3-4
POLI SCI 182	Introduction to Comparative Politics (Honors)	3	POLI SCI 432	Comparative Legal Institutions	3-4
POLI SCI/ CHICLA 231	Politics in Multi-Cultural Societies	3-4	POLI SCI/ RELIG ST 433	Religion and Politics	3-4
POLI SCI/ASIAN/ GEOG/HISTORY/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	POLI SCI/ INTL ST 434	The Politics of Human Rights	3-4
POLI SCI/GEOG/ HISTORY/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3
POLI SCI/GEOG/ HISTORY/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4			
POLI SCI/ASIAN/ HISTORY 255	Introduction to East Asian Civilizations	3-4			

POLI SCI/ INTL ST 436	Political Inequality: Measures, Causes, Effects and Remedies	3
POLI SCI 437	Nationalism and Ethnic Conflict	3-4
POLI SCI 438	Comparative Political Culture	3-4
POLI SCI/ INTL ST 439	The Comparative Study of Genocide	3-4
POLI SCI 529	Arab-Israeli Conflict	3-4
POLI SCI 534	Socialism and Transitions to the Market	3-4
POLI SCI 537	Electoral Systems and Representation	3-4
POLI SCI 538	Politics and Policies in the European Union	3-4
POLI SCI 635	Comparative Politics of Sport	3-4
POLI SCI 690	Study Abroad Topics in Political Science: Comparative Politics	1-4

## INTERNATIONAL RELATIONS

### International Relations course options

Code	Title	Credits
POLI SCI 140	Introduction to International Relations	3-4
POLI SCI/CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3
POLI SCI 340	The European Union: Politics and Political Economy	3-4
POLI SCI 343	Theories of International Security	3-4
POLI SCI 345	Conflict Resolution	3-4
POLI SCI 346	China in World Politics	3-4
POLI SCI 347	Terrorism	3
POLI SCI 348	Analysis of International Relations	3-4
POLI SCI 350	International Political Economy	3-4
POLI SCI 354	International Institutions and World Order	3-4
POLI SCI 356	Principles of International Law	3-4
POLI SCI 359	American Foreign Policy	3-4
POLI SCI 377	Nuclear Weapons and World Politics	3-4
POLI SCI 390	Study Abroad Topics in Political Science: International Relations	1-4
POLI SCI/ECON/ ENVIR ST/ URB R PL 449	Government and Natural Resources	3-4
POLI SCI 455	African International Relations	3-4
POLI SCI 652	The Politics of Development	3-4

## ELECTIVES

Complete additional coursework, if necessary, to reach the minimum of 24 credits.

## PREPARING TO TEACH ABROAD, CERTIFICATE

The Curriculum and Global Studies area encompasses multiple research programs in order to consider the politics of knowledge and the paradoxes of inclusions that exclude in curriculum, pedagogy, and teacher education. While encompassing diverse lines of inquiry, scholarship in this area engages in postfoundational approaches, giving critical attention to coloniality, differences, racialization, and beyond Western cosmologies. The research occurs at the interstices of historicizing methods related to political sociology and comparative philosophy, among others.

The affinity of the curriculum studies and global studies derives from the transnational nature of the faculty's work and reflects the significant number of international scholars and students affiliated with the area.

## HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Certificate in Preparing to Teach Abroad. To declare the certificate, students should meet with the Certificate advisor and then visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

## REQUIREMENTS

The Certificate in Preparing to Teach Abroad requires the following course distribution for a minimum of 15 credits. At least 8 credits must be completed in residence. Students must complete two required courses, CURRIC 366 and CURRIC 418, 6 credits of electives, and a required capstone course, CURRIC 419.

Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

## REQUIRED COURSES

Code	Title	Credits
CURRIC 366	Internationalizing Educational Knowledge	3
CURRIC 418	Preparing to Teach Abroad	3
CURRIC 419	Preparing to Teach Abroad Capstone	3

## ELECTIVES

The 6 credits of electives can be taken concurrently with required certificate classes. Students can choose to concentrate their electives on the following themes, but are not required to do so. In selecting courses we will encourage students to consider courses both relevant to the areas of interest, but also issues raised in the certificate's required courses. Course selection can be guided in consultation with the certificate advisor.

## FOCUS ON SCHOOL OF EDUCATION- ORIENTED TOPICS

Courses in this section include special education, bilingual education, educational psychology and educational policy studies.



Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3
CURRIC 292	Globalizing Education	3
CURRIC 312	ESL/Bilingual Issues	3
CURRIC 676	Bilingualism and Bilinguality in Schools	3
ED PSYCH 301	How People Learn	3
ED PSYCH 320	Human Development in Infancy and Childhood	2-3
ED PSYCH 321	Human Development in Adolescence	2-3
ED PSYCH 326	Mind, Brain and Education	3
ED PSYCH 331	Human Development From Childhood Through Adolescence	3
ED PSYCH 509	Embodied Cognition & Education	3
ED POL/ HISTORY 107	The History of the University in the West	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 240	Comparative Education	3
ED POL 260	Introduction to International Education Development	3
ED POL 274	Education Studies--Study Abroad/ Global Education	1-3
ED POL/ INTL ST 335	Globalization and Education	3
ED POL 675	Introduction to Comparative and International Education	3
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	3
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3
GEOG 359	Australia: Environment and Society	3
HISTORY 120	Europe and the Modern World 1815 to the Present	4
HISTORY 139	Introduction to the Modern Middle East	3-4
HISTORY 142	History of South Asia to the Present	3-4
HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4
HISTORY 359	History of Europe Since 1945	3-4
HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4
INTL ST 266	Introduction to the Middle East	3
INTL ST/GEOG 311	The Global Game: Soccer, Politics, and Identity	3
INTL ST/A A E 373	Globalization, Poverty and Development	3
INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
INTL ST 401	Topics in Global Security	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
INTL ST 403	Topics in Culture in the Age of Globalization	3-4
INTL ST 501	Study Abroad Topics in Global Security	1-6
INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
INTL ST 601	Topics in Global Security	1-4
INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4

## FOCUS ON HISTORICAL, CULTURAL AND SOCIAL CONTEXTS

Code	Title	Credits
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFROAMER 271	Selected Topics in African American Culture	3
ASIAN 203	Lost in Translation: Western Experience in Asia	3
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
ENGL 415	Introduction to TESOL Methods	3
GEOG 307	International Migration, Health, and Human Rights	3
GEOG 318	Introduction to Geopolitics	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context	3

INTL ST 603	Topics in Culture in the Age of Globalization	1-4
LACIS/CHICLA/ HISTORY/ POLI SCI 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3
LACIS 440	Topics in Latin American, Caribbean, and Iberian Studies	1-4
SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	4
SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	4

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Analyze issues of coloniality, power, and difference as they relate to teaching, learning, and curriculum in non-US settings.
2. Examine key cultural, social, and historical relationships to educational knowledges before entering a pedagogical space abroad.
3. Identify curriculum and teaching practices that produce difference and exclusions, focusing on the intersection of transnational and local contexts.
4. Develop culturally responsive practices and pedagogies focused on teaching abroad.
5. Use experiential knowledge of practicum teaching to reflect on pedagogical practices and contextual differences in non-US contexts.

## PSYCHOLOGY, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Psychology (<https://psych.wisc.edu/>) is housed in the College of Letters & Science. Students interested in completing an additional major in psychology may wish to consult with an undergraduate advisor (<https://psych.wisc.edu/undergraduate-program/advising/>) in the department to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public

Instruction does not offer content licenses in association with the K-9 educator license.

### HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

### REQUIREMENTS

Complete a minimum of 26 credits. A minimum cumulative grade point average of 2.75 is required, based on all Psychology minor coursework taken at UW-Madison. Students wishing to complete an additional major in Psychology through the College of Letters & Science must also complete supporting coursework in introductory biology; see Requirements for the Major (p. 1329).

Code	Title	Credits
PSYCH 202	Introduction to Psychology	3-4
PSYCH 210	Basic Statistics for Psychology	3
PSYCH 225	Research Methods	4
PSYCH 405	Abnormal Psychology	3-4
PSYCH 456	Social Psychology	3-4
PSYCH 403	Psychology of Personality	3
PSYCH 414	Cognitive Psychology	3
Select one of the following:		3-4
PSYCH 449	Animal Behavior	
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	
PSYCH 454	Behavioral Neuroscience	
Select additional coursework, if necessary, to reach the minimum of 26 credits		

## SCIENCE SPECIALIZED, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email

at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

## REQUIREMENTS

Complete a minimum of 22 credits selected from one or more of the following areas. Courses must be taken from the departments indicated. A minimum 2.75 grade point average is required, based on all UW-Madison coursework included in this minor.

- Biology: Departments of Botany (<http://guide.wisc.edu/courses/botany/>), Zoology (<http://guide.wisc.edu/courses/zoology/>), and Bacteriology (<http://guide.wisc.edu/courses/microbio/>) (Microbiology course listings)
- Chemistry: Departments of Chemistry (<http://guide.wisc.edu/courses/chem/>) and Biochemistry (<http://guide.wisc.edu/courses/biochem/>)
- Physics: Department of Physics (<http://guide.wisc.edu/courses/physics/>)
- Earth Science: Departments of Astronomy (<http://guide.wisc.edu/courses/astron/>), Geography (<http://guide.wisc.edu/courses/geog/>) (Physical Geography courses designated as Physical Science only), Geoscience (<http://guide.wisc.edu/courses/geosci/>), and Atmospheric and Oceanic Sciences ([http://guide.wisc.edu/courses/atm\\_ocn/](http://guide.wisc.edu/courses/atm_ocn/)).

At least 10 of the 22 credits must be numbered 200 and above.

## SOCIAL STUDIES, MINOR

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

Students may wish to consult with an advisor in the School of Education Student Services office, 139 Education Building, to discuss course selection and other issues related to this field of study. Current students can schedule a Student Services appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/>

) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) by calling 608-262-1651, or in person.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

## HOW TO GET IN

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

## REQUIREMENTS

Complete 24 credits to include the requirements listed below. A minimum 2.75 grade point average is required, based on all UW-Madison course work included in the Social Studies minor. The courses listed here will meet this requirement, but additional courses may be considered. Confer with an advisor in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall, 608-262-1651, for consideration of additional courses.

Some courses may be listed in multiple categories, but can count in only one.

## HISTORY/CIVILIZATIONS UNITED STATES OR EUROPEAN HISTORY

Select one course from the following.

### United States or European History course options

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 154	Hip-Hop and Contemporary American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER 231	Introduction to Afro-American History	3
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 302	Undergraduate Studies in Afro-American History	3
AFROAMER/ HISTORY 321	Afro-American History Since 1900	3-4
AFROAMER/ HISTORY 322	Afro-American History to 1900	3-4

AFROAMER/ GEN&WS 323	Gender, Race and Class: Women in U.S. History	3	CHICLA/ HISTORY 151	The North American West to 1850	3-4
AFROAMER/ GEN&WS 324	Black Women in America: Reconstruction to the Present	3	CHICLA/ HISTORY 152	The U.S. West Since 1850	3-4
AFROAMER/ GEN&WS 326	Race and Gender in Post-World War II U.S. Society	3	CHICLA/ HISTORY 153	Latina/Latino/Latinx History	3-4
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3	CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
AFROAMER/ HISTORY 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4	CHICLA/GEN&WS/ HISTORY 245	Chicana and Latina History	3
AFROAMER 456	Soul Music and the African American Freedom Movement	3	CHICLA 301	Chicana/o and Latina/o History	3
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3	CHICLA 315	Racial Formation and Whiteness	3
AFROAMER/ ED POL 567	History of African American Education	3	CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
AFROAMER/ HISTORY 628	History of the Civil Rights Movement in the United States	3	CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	3
AFROAMER 631	Colloquium in Afro-American History	3	CHICLA/HISTORY/ POLI SCI 422	Latino History and Politics	3
AFROAMER 671	Selected Topics in Afro-American History	3	CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
<b>American Indian Studies</b>			<b>Classics</b>		
AMER IND 100	Introduction to American Indian Studies	3	CLASSICS 206	Classical Influences on Western Art and Science	3
AMER IND 250	Indians of Wisconsin	3	<b>Community &amp; Environmental Sociology</b>		
AMER IND/ ANTHRO 314	Indians of North America	3	C&E SOC/HISTORY/ POLI SCI/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3
AMER IND 320	Native Peoples of the Southwest	3	<b>Educational Policy Studies</b>		
AMER IND/ SOC WORK 636	Social Work in American Indian Communities: The Indian Child Welfare Act	3	ED POL/ HISTORY 107	The History of the University in the West	3
<b>Asian American Studies</b>			ED POL/ HISTORY 412	History of American Education	3
ASIAN AM/ AFROAMER/ AMER IND/CHICLA/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3	ED POL/ AFROAMER 567	History of African American Education	3
ASIAN AM/ HISTORY 160	Asian American History: Movement and Dislocation	3-4	ED POL/ HISTORY 612	History of Student Activism from the Popular Front to Black Lives Matter	3
ASIAN AM/ HISTORY 161	Asian American History: Settlement and National Belonging	3-4	<b>Environmental Studies</b>		
ASIAN AM 170	Hmong American Experiences in the United States	3	ENVIR ST/GNS 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4	ENVIR ST/HISTORY/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
ASIAN AM/ASIAN/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4	<b>Gender and Women's Studies</b>		
ASIAN AM 441	Hmong American Social Movements in the 20th and 21st Centuries	3	GEN&WS/ HIST SCI 537	Childbirth in the United States	3
<b>Chicana/o and Latina/o Studies</b>			<b>History—United States History</b>		
CHICLA/ AFROAMER/ AMER IND/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3	HISTORY 101	Amer Hist to the Civil War Era, the Origin & Growth of the U S	4
			HISTORY 102	American History, Civil War Era to the Present	4
			HISTORY/ ED POL 107	The History of the University in the West	3
			HISTORY 109	Introduction to U.S. History	3-4
			HISTORY/ENVIR ST/ HIST SCI 125	Green Screen: Environmental Perspectives through Film	3
			HISTORY 136	Sport, Recreation, & Society in the United States	3-4
			HISTORY 140	Conspiracy Theories in Context	3-4

HISTORY/ ED POL 143	History of Race and Inequality in Urban America	3	HISTORY/ GEN&WS 353	Women and Gender in the U.S. to 1870	3-4
HISTORY 145	America and China, 1776-Today	3-4	HISTORY/ GEN&WS 354	Women and Gender in the U.S. Since 1870	3-4
HISTORY 150	American Histories: The Nineteenth Century	4	HISTORY/CHICLA/ LACIS/POLI SCI 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY/ CHICLA 151	The North American West to 1850	3-4	HISTORY/ AFROAMER 393	Slavery, Civil War, and Reconstruction, 1848-1877	3-4
HISTORY/ CHICLA 152	The U.S. West Since 1850	3-4	HISTORY/HIST SCI/ MED HIST 394	Science in America	3
HISTORY/ CHICLA 153	Latina/Latino/Latinx History	3-4	HISTORY 401	Public History Workshop	3
HISTORY/ ASIAN AM 160	Asian American History: Movement and Dislocation	3-4	HISTORY 403	Immigration and Assimilation in American History	3-4
HISTORY/ ASIAN AM 161	Asian American History: Settlement and National Belonging	3-4	HISTORY/ ED POL 412	History of American Education	3
HISTORY/ AMER IND 190	Introduction to American Indian History	3-4	HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3
HISTORY 201	The Historian's Craft (U.S. topics)	3-4	HISTORY 427	The American Military Experience to 1902	3-4
HISTORY/ JEWISH 213	Jews and American Pop. Culture	3-4	HISTORY 428	The American Military Experience Since 1899	3-4
HISTORY/ JEWISH 219	The American Jewish Experience: From Shtetl to Suburb	4	HISTORY/ENVIR ST/ LEGAL ST 430	Law and Environment: Historical and Contemporary Perspectives	3
HISTORY 221	Explorations in American History (H)	3-4	HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY 227	Explorations in the History of Race and Ethnicity	3	HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4	HISTORY/ENVIR ST/ GEOG 460	American Environmental History	4
HISTORY/C&E SOC/ POLI SCI/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3	HISTORY/ ECON 466	The American Economy Since 1865	3-4
HISTORY/ LEGAL ST 261	American Legal History to 1860	3	HISTORY/ENVIR ST/ GEOG 469	The Making of the American Landscape	4
HISTORY/ LEGAL ST 262	American Legal History, 1860 to the Present	3	HISTORY 500	Reading Seminar in History (U.S. Topics)	3
HISTORY 269	War, Race, and Religion in Europe and the United States, from the Scramble for Africa to Today	3-4	HISTORY/ JOURN 560	History of U.S. Media	4
HISTORY 272	History Study Abroad: United States History	1-4	HISTORY/L I S 569	History of American Librarianship	3
HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4	HISTORY 607	The American Impact Abroad: The Historical Dimension	3
HISTORY 302	History of American Thought, 1859 to the Present	3-4	HISTORY/ ED POL 612	History of Student Activism from the Popular Front to Black Lives Matter	3
HISTORY 306	The United States Since 1945	3-4	HISTORY/ AFROAMER 628	History of the Civil Rights Movement in the United States	3
HISTORY/ AFROAMER 321	Afro-American History Since 1900	3-4	<b>History—European History</b>		
HISTORY/ AFROAMER 322	Afro-American History to 1900	3-4	HISTORY/ CLASSICS 110	The Ancient Mediterranean	4
HISTORY 329	History of American Capitalism	4	HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4
HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4	HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4
HISTORY 344	The Age of the American Revolution, 1763-1789	3-4	HISTORY 115	Medieval Europe 410-1500	4
HISTORY 345	Military History of the United States	3-4			

HISTORY 119	Europe and the World, 1400-1815	4	HISTORY/ CLASSICS/ POLI SCI 362	Athenian Democracy	3
HISTORY 120	Europe and the Modern World 1815 to the Present	4	HISTORY/ INTL ST 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
HISTORY 123	English History: England to 1688	3-4	HISTORY 367	Society and Ideas in Shakespeare's England	3-4
HISTORY 124	British History: 1688 to the Present	4	HISTORY/ GEN&WS 392	Women and Gender in Modern Europe	3-4
HISTORY 201	The Historian's Craft (European topics)	3-4	HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3
HISTORY/ RELIG ST 208	Western Intellectual and Religious History to 1500	3-4	HISTORY 410	History of Germany, 1871 to the Present	3-4
HISTORY/ RELIG ST 209	Western Intellectual and Religious History since 1500	3-4	HISTORY/ RELIG ST 411	The Enlightenment and Its Critics	3
HISTORY/ RELIG ST 212	The History of Western Christianity to 1750	4	HISTORY 417	History of Russia	3-4
HISTORY/ JEWISH 220	Introduction to Modern Jewish History	4	HISTORY 418	History of Russia	3-4
HISTORY 223	Explorations in European History (H)	3-4	HISTORY 419	History of Soviet Russia	3-4
HISTORY 224	Explorations in European History (S)	3	HISTORY 420	Russian Social and Intellectual History	3-4
HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4	HISTORY 424	The Soviet Union and the World, 1917-1991	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4	HISTORY 425	History of Poland and the Baltic Area	3-4
HISTORY/ GEOG/POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4	HISTORY/ LEGAL ST 426	The History of Punishment	3-4
HISTORY 270	Eastern Europe since 1900	3-4	HISTORY/ SCAND ST 431	History of Scandinavia to 1815	3
HISTORY 271	History Study Abroad: European History	1-4	HISTORY/ SCAND ST 432	History of Scandinavia Since 1815	3
HISTORY 303	A History of Greek Civilization	3-4	HISTORY/ LEGAL ST 459	Rule of Law: Philosophical and Historical Models	3-4
HISTORY 307	A History of Rome	3-4	HISTORY/ LEGAL ST 476	Medieval Law and Society	3
HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4	HISTORY/ ED POL 478	Comparative History of Childhood and Adolescence	3
HISTORY/ JEWISH 310	The Holocaust	3-4	HISTORY/HIST SCI/ MED HIST 507	Health, Disease and Healing I	3-4
HISTORY 320	Early Modern France, 1500-1715	3-4	HISTORY/HIST SCI/ MED HIST 508	Health, Disease and Healing II	3-4
HISTORY/ HIST SCI 323	The Scientific Revolution: From Copernicus to Newton	3	HISTORY/ CURRIC/ED POL/ JEWISH 515	Holocaust: History, Memory and Education	3
HISTORY/ HIST SCI 324	Science in the Enlightenment	3	HISTORY/ CLASSICS/ RELIG ST 517	Religions of the Ancient Mediterranean	3
HISTORY/ ENVIR ST 328	Environmental History of Europe	3	HISTORY/ JEWISH 518	Anti-Semitism in European Culture, 1700-1945	3
HISTORY 348	France from Napoleon to the Great War, 1799-1914	3-4	HISTORY/ SCAND ST 577	Contemporary Scandinavia: Politics and History	3-4
HISTORY 349	Contemporary France, 1914 to the Present	3-4	<b>History of Science</b>		
HISTORY 350	The First World War and the Shaping of Twentieth-Century Europe	3-4	HIST SCI/HISTORY/ MED HIST 132	Bees, Trees, Germs, and Genes: A History of Biology	3
HISTORY 351	Seventeenth-Century Europe	3-4	HIST SCI 150	The Digital Age	3
HISTORY 357	The Second World War	3-4	HIST SCI/ HISTORY 171	History of Medicine in Film	3-4
HISTORY 358	French Revolution and Napoleon	3-4			
HISTORY 359	History of Europe Since 1945	3-4			
HISTORY/ENGL/ RELIG ST 360	The Anglo-Saxons	3			
HISTORY 361	The Emergence of Mod Britain: England 1485-1660	3-4			

HIST SCI 201	The Origins of Scientific Thought	3
HIST SCI/ MED HIST 218	History of Twentieth Century American Medicine	3
HIST SCI/ AFROAMER 275	Science, Medicine, and Race: A History	3
HIST SCI 404	A History of Disease	3-4
HIST SCI/ MED HIST 509	The Development of Public Health in America	3
HIST SCI/ AFROAMER/ MED HIST 523	Race, American Medicine and Public Health	3
HIST SCI/GEN&WS/ MED HIST 531	Women and Health in American History	3
HIST SCI/GEN&WS/ MED HIST 532	The History of the (American) Body	3
HIST SCI/ GEN&WS 537	Childbirth in the United States	3
<b>Integrated Liberal Studies</b>		
ILS 201	Western Culture: Science, Technology, Philosophy I	3
ILS 202	Western Culture: Science, Technology, Philosophy II	3
<b>International Studies</b>		
INTL ST/ HISTORY 332	East Asia & The U.S. Since 1899	3-4
<b>Legal Studies</b>		
LEGAL ST/ ENVIR ST/ HISTORY 430	Law and Environment: Historical and Contemporary Perspectives	3
<b>Medical History and Bioethics</b>		
MED HIST/ HIST SCI 218	History of Twentieth Century American Medicine	3
<b>Political Science</b>		
POLI SCI/C&E SOC/ HISTORY/SOC 259	Forward? The Wisconsin Idea, Past and Present	1-3
POLI SCI/CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3
POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
POLI SCI/CHICLA/ HISTORY 422	Latino History and Politics	3
<b>Scandinavian Studies</b>		
SCAND ST 348	The Second World War in Nordic Culture	3
<b>Sociology</b>		
SOC/C&E SOC/ HISTORY/ POLI SCI 259	Forward? The Wisconsin Idea, Past and Present	1-3

## WORLD/GLOBAL OR NON-WESTERN HISTORY

Select one course from the following.

## World/Global or Non-Western History course options

Code	Title	Credits
<b>African Cultural Studies</b>		
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	4
<b>Afro-American Studies</b>		
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER/ AFRICAN/ANTHRO/ GEOG/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
<b>Anthropology</b>		
ANTHRO/ AFROAMER/ C&E SOC/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
ANTHRO/ AMER IND 314	Indians of North America	3
ANTHRO 333	Prehistory of Africa	3
<b>Asian Languages and Cultures</b>		
ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN 252	Contemporary Indian Society	4
ASIAN/HISTORY/ RELIG ST 267	Asian Religions in Global Perspective	3-4
ASIAN/HISTORY/ RELIG ST 308	Introduction to Buddhism	3-4

ASIAN/AFRICAN/ RELIG ST 370	Islam: Religion and Culture	3-4	HISTORY/ RELIG ST 205	The Making of the Islamic World: The Middle East, 500-1500	3-4
ASIAN/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4	HISTORY 225	Explorations in Third World History (H)	3-4
ASIAN/ HISTORY 458	History of Southeast Asia Since 1800	3-4	HISTORY 228	Explorations in Transnational/ Comparative History (Social Science) (Topic must be approved)	3
<b>Community &amp; Environmental Sociology</b>			HISTORY 229	Explorations in Transnational/ Comparative History (Humanities) (Topic must be approved)	3
C&E SOC/ AFROAMER/ ANTHRO/GEOG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY 241	Latin America from 1780 to 1940	4
<b>Gender and Women's Studies</b>			HISTORY/INTL ST/ LACIS 242	Modern Latin America	4
GEN&WS/ HISTORY 134	Women and Gender in World History	3-4	HISTORY/LACIS 243	Colonial Latin America: Invasion to Independence	3-4
<b>Geography</b>			HISTORY/ASIAN/ GEOG/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4	HISTORY/CHICLA/ GEN&WS 245	Chicana and Latina History	3
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	HISTORY/ASIAN/ ASIAN AM 246	Southeast Asian Refugees of the "Cold" War	4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4	HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
<b>History</b>			HISTORY/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY/ASIAN 103	Introduction to East Asian History: China	3-4	HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/ASIAN 104	Introduction to East Asian History: Japan	3-4	HISTORY/ASIAN/ RELIG ST 267	Asian Religions in Global Perspective	3
HISTORY 105	Introduction to the History of Africa	3-4	HISTORY 273	History Study Abroad: Non-Western History	1-4
HISTORY/ASIAN 108	Introduction to East Asian History - Korea	3-4	HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 111	Culture & Society in the Ancient Mediterranean	3-4	HISTORY 278	Africans in the Americas, 1492-1808	3-4
HISTORY/ MEDIEVAL/ RELIG ST 112	The World of Late Antiquity (200-900 C.E.)	4	HISTORY 279	Afro-Atlantic History, 1808-Present	3-4
HISTORY/ AFRICAN 129	Africa on the Global Stage	3-4	HISTORY/AFRICAN/ AFROAMER/ POLI SCI 297	African and African-American Linkages: An Introduction	4
HISTORY 130	An Introduction to World History	3-4	HISTORY/ASIAN/ RELIG ST 308	Introduction to Buddhism	3-4
HISTORY 133	Global Military History (5000 BCE - Present)	3-4	HISTORY/ MEDIEVAL/ RELIG ST 309	The Crusades: Christianity and Islam	3-4
HISTORY/ GEN&WS 134	Women and Gender in World History	3-4	HISTORY/ASIAN 319	The Vietnam Wars	3-4
HISTORY 139	Introduction to the Modern Middle East	3-4	HISTORY/ INTL ST 332	East Asia & The U.S. Since 1899	3-4
HISTORY 142	History of South Asia to the Present	3-4	HISTORY/ ASIAN 335	The Koreas: Korean War to the 21st Century	3-4
HISTORY 144	Traveling the World: South Asians in Diaspora	4	HISTORY 336	Chinese Economic and Business History: From Silk to iPhones	3-4
HISTORY 145	America and China, 1776-Today	3-4			
HISTORY 201	The Historian's Craft (Topic must be approved)	3-4			



HISTORY/ ASIAN 337	Social and Intellectual History of China, 589 AD-1919	3-4	POLI SCI/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/SOC/ SPANISH 260	Latin America: An Introduction	3-4
HISTORY 340	Cultural History of Korea	3-4			
HISTORY/ASIAN 341	History of Modern China, 1800-1949	3-4			
HISTORY/ ASIAN 342	History of the Peoples Republic of China, 1949 to the Present	3-4			
HISTORY/ AFROAMER 347	The Caribbean and its Diasporas	3	POLI SCI/CHICLA/ HISTORY/ LACIS 268	The U.S. & Latin America from the Colonial Era to the Present: A Critical Survey	3
HISTORY/ ASIAN 363	China and World War II in Asia	3-4	POLI SCI/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/SOC 277	Africa: An Introductory Survey	4
HISTORY/ POLI SCI 370	Islam and Politics	3-4			
HISTORY/ RELIG ST 409	Christianity in the Atlantic World, 1500-1800	3	POLI SCI/AFRICAN/ AFROAMER/ HISTORY 297	African and African-American Linkages: An Introduction	4
HISTORY/CHICLA/ POLI SCI 422	Latino History and Politics	3			
HISTORY/ CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3	POLI SCI/CHICLA/ HISTORY/LACIS 355	Labor in the Americas: US & Mexico in Comparative & Historical Perspective	3
HISTORY/ASIAN/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4			
HISTORY 441	Revolution and Conflict in Modern Latin America	3-4			
HISTORY 444	History of East Africa	3-4			
HISTORY 445	History of Equatorial Africa	3-4			
HISTORY 450	Making of Modern South Asia	3-4			
HISTORY/ ASIAN 454	Samurai: History and Image	3-4			
HISTORY/ ASIAN 456	Pearl Harbor & Hiroshima: Japan, the US & The Crisis in Asia	3-4			
HISTORY 457	History of Southeast Asia to 1800	3-4			
HISTORY/ ASIAN 458	History of Southeast Asia Since 1800	3-4			
HISTORY/ ASIAN 463	Topics in South Asian History	3			
HISTORY/ ENVIR ST 465	Global Environmental History	3-4			
HISTORY 533	Multi-Racial Societies in Latin America	3-4			
HISTORY/HIST SCI/ MED HIST 564	Disease, Medicine and Public Health in the History of Latin America and the Caribbean	3			
<b>International Studies</b>					
INTL ST 266	Introduction to the Middle East	3			
<b>Medieval Studies</b>					
MEDIEVAL/ HISTORY/ RELIG ST 309	The Crusades: Christianity and Islam	3-4			
<b>Political Science</b>					
POLI SCI/ASIAN/ GEOG/HISTORY/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4			
POLI SCI/ASIAN/ HISTORY 255	Introduction to East Asian Civilizations	3-4			
<b>Religious Studies</b>					
RELIG ST/ HISTORY 205	The Making of the Islamic World: The Middle East, 500-1500	3-4			
RELIG ST/ASIAN/ HISTORY 267	Asian Religions in Global Perspective	3			
RELIG ST/ ASIAN 306	Hinduism	3			
RELIG ST/ASIAN/ HISTORY 308	Introduction to Buddhism	3-4			
RELIG ST/HISTORY/ MEDIEVAL 309	The Crusades: Christianity and Islam	3-4			
RELIG ST/AFRICAN/ ASIAN 370	Islam: Religion and Culture	4			
RELIG ST/ASIAN/ HISTORY 438	Buddhism and Society in Southeast Asian History	3-4			
<b>Sociology</b>					
SOC/ASIAN/ GEOG/HISTORY/ POLI SCI 244	Introduction to Southeast Asia: Vietnam to the Philippines	4			
SOC/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SPANISH 260	Latin America: An Introduction	3-4			
SOC/AFRICAN/ AFROAMER/ ANTHRO/ GEOG/HISTORY/ POLI SCI 277	Africa: An Introductory Survey	4			
<b>Spanish</b>					
SPANISH/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4			

## LANDS/PEOPLE UNITED STATES OR EUROPE

Select one course from the following.

### United States or European course options

Code	Title	Credits
<b>Afro-American Studies</b>		
AFROAMER 151	Introduction to Contemporary Afro-American Society	3
AFROAMER 154	Hip-Hop and Contemporary American Society	3
AFROAMER 156	Black Music and American Cultural History	3
AFROAMER/ GEN&WS 221	Introduction to Black Women's Studies	3
AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC/SPANISH 260	Latin America: An Introduction	3-4
AFROAMER 272	Race and American Politics from the New Deal to the New Right	3
AFROAMER/ AFRICAN/HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFROAMER 303	Blacks, Film, and Society	3
AFROAMER/ GEN&WS 333	Black Feminisms	3
AFROAMER/ HISTORY 347	The Caribbean and its Diasporas	3
AFROAMER/ POLI SCI 519	African American Political Theory	3-4
AFROAMER/ HIST SCI/ MED HIST 523	Race, American Medicine and Public Health	3
AFROAMER/ GEN&WS 624	African American Women's Activism (19th & 20th Centuries)	3
AFROAMER 673	Selected Topics in Afro-American Society	3
<b>American Indian Studies</b>		
AMER IND 100	Introduction to American Indian Studies	3
AMER IND 250	Indians of Wisconsin	3
AMER IND/ ANTHRO 314	Indians of North America	3
AMER IND/ LINGUIS 371	Survey of North American Indian Languages	3
AMER IND/ ANTHRO/ FOLKLORE/ GEN&WS 437	American Indian Women	3
AMER IND/LSC 444	Native American Environmental Issues and the Media	3
AMER IND 450	Issues in American Indian Studies	3
AMER IND/ C&E SOC/SOC 578	Poverty and Place	3

### Anthropology

ANTHRO 104	Cultural Anthropology and Human Diversity	3
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### Asian American Studies

ASIAN AM 101	Introduction to Asian American Studies	3
ASIAN AM/SOC 220	Ethnic Movements in the United States	3-4
ASIAN AM 240	Topics in Asian American Studies	3
ASIAN AM/ COM ARTS 420	Asian Americans and Media	3
ASIAN AM 540	Special Topics	3
ASIAN AM/ JOURN 662	Mass Media and Minorities	4

### Chican@ and Latin@ Studies

CHICLA/ AFROAMER/ AMER IND/ ASIAN AM/ FOLKLORE 102	Introduction to Comparative US Ethnic and American Indian Studies	3
CHICLA 201	Introduction to Chicana/o and Latina/o Studies	3
CHICLA/ POLI SCI 231	Politics in Multi-Cultural Societies	3-4
CHICLA 330	Topics in Chicano/a Studies	3-4
CHICLA/ GEN&WS 332	Latinas: Self Identity and Social Change	3
CHICLA/ COM ARTS 347	Race, Ethnicity, and Media	3
CHICLA/ SPANISH 364	Survey of Latino and Latina Popular Culture	3
CHICLA/ COM ARTS 419	Latino/as and Media	3
CHICLA/ HISTORY 435	Colony, Nation, and Minority: The Puerto Ricans' World	3

### Geography

GEOG/HISTORY/ POLI SCI/ SLAVIC 253	Russia: An Interdisciplinary Survey	4
GEOG/HISTORY/ POLI SCI/ SLAVIC 254	Eastern Europe: An Interdisciplinary Survey	4
GEOG 342	Geography of Wisconsin	3
GEOG 344	Changing Landscapes of the American West	3
GEOG 349	Europe	3
GEOG/ AMER IND 410	Critical Indigenous Ecological Knowledges	3

### Landscape Architecture

LAND ARC 360	Earth Partnership Restoration Education: Indigenous Arts & Sciences	1
LAND ARC 363	Earth Partnership: Restoration Education for Equity and Resilience	3

### Sociology

SOC 120	Marriage and Family	3-4
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SOC 125	American Society: How It Really Works	3-4
SOC 134	Sociology of Race & Ethnicity in the United States	3-4
SOC 138	The Sociology of Gender	3-4
SOC 170	Population Problems	3-4

## GLOBAL COMPARATIVE OR NON-WESTERN CULTURES

Select one course from the following.

### Global Comparative or Non-Western Cultures course options

Code	Title	Credits
<b>African Cultural Studies</b>		
AFRICAN/ HISTORY 129	Africa on the Global Stage	3-4
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN/ AFROAMER 233	Global HipHop and Social Justice	3
AFRICAN/ AFROAMER/ ANTHRO/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4
AFRICAN/ AFROAMER/ HISTORY/ POLI SCI 297	African and African-American Linkages: An Introduction	4
AFRICAN/ASIAN/ RELIG ST 370	Islam: Religion and Culture	3-4
AFRICAN 403	Theories of African Cultural Studies	3
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	3
AFRICAN/ COM ARTS/ L I S 444	Technology and Development in Africa and Beyond	3
<b>Anthropology</b>		
ANTHRO 100	General Anthropology	3
ANTHRO 102	Archaeology and the Prehistoric World	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3
<b>Asian American Studies</b>		
ASIAN AM/ASIAN/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
<b>Asian Languages and Cultures</b>		
ASIAN/GEOG/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ASIAN/ASIAN AM/ HISTORY 246	Southeast Asian Refugees of the "Cold" War	4
ASIAN 252	Contemporary Indian Society	4

ASIAN/ RELIG ST 306	Hinduism	3
ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	3
ASIAN/HISTORY/ RELIG ST 438	Buddhism and Society in Southeast Asian History	3-4
<b>Environmental Studies</b>		
ENVIR ST/ ENTOM 205	Our Planet, Our Health	3
ENVIR ST/ HISTORY 465	Global Environmental History	3-4
<b>Folklore</b>		
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4
<b>Gender and Womens Studies</b>		
GEN&WS 423	The Female Body in the World: Gender and Contemporary Body Politics in Cross Cultural Perspective	3
GEN&WS/ POLI SCI 435	Politics of Gender and Women's Rights in the Middle East	3
<b>Geography</b>		
GEOG 101	Introduction to Human Geography	4
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
GEOG 301	Revolutions and Social Change	3
GEOG 302	Economic Geography: Locational Behavior	4
GEOG/ URB R PL 305	Introduction to the City	3-4
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/INTL ST 311	The Global Game: Soccer, Politics, and Identity	3
GEOG/INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	3
GEOG 318	Introduction to Geopolitics	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
GEOG 340	World Regions in Global Context	3
GEOG 348	Latin America	4
GEOG 355	Africa, South of the Sahara	3
GEOG 358	Human Geography of Southeast Asia	3

GEOG/ENVIR ST/ HISTORY 460	American Environmental History	4
GEOG 501	Space and Place: A Geography of Experience	3
GEOG/ GEN&WS 504	Feminist Geography: Theoretical Approaches	3
GEOG 507	Waste Geographies: Politics, People, and Infrastructures	3

**History**

HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3
HISTORY/AFRICAN/ AFROAMER/ ANTHRO/GEOG/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY 450	Making of Modern South Asia	3-4

**International Studies**

INTL ST 266	Introduction to the Middle East	3
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**Latin American, Caribbean, and Iberian Studies**

LACIS/AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
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**Political Science**

POLI SCI 320	Governments and Politics of the Middle East and North Africa	3-4
POLI SCI 328	Politics of East and Southeast Asia	3-4
POLI SCI/ JEWISH 341	Israeli Politics and Society	3-4
POLI SCI 349	Global Access to Justice	3
POLI SCI/ GEN&WS 435	Politics of Gender and Women's Rights in the Middle East	3

**Sociology**

SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC 170	Population Problems	3-4

**ELECTIVES**

Choose additional electives to reach the minimum of 24 credits. Electives must be chosen from the courses listed above or from the departments of Economics (<http://guide.wisc.edu/courses/econ/>), Geography (<http://guide.wisc.edu/courses/geog/>), History (<http://guide.wisc.edu/courses/history/>), Political Science ([http://guide.wisc.edu/courses/poli\\_sci/](http://guide.wisc.edu/courses/poli_sci/)), Psychology (<http://guide.wisc.edu/courses/psych/>) and Sociology (<http://guide.wisc.edu/courses/soc/>).

**RECOMMENDED COURSE OPTIONS**

It is strongly recommended to take at least one of the following non-Western interdisciplinary courses while meeting the minor requirements.

Code	Title	Credits
GEOG/ASIAN/ HISTORY/POLI SCI/ SOC 244	Introduction to Southeast Asia: Vietnam to the Philippines	4
ASIAN 252	Contemporary Indian Society	4
GEOG/AFROAMER/ ANTHRO/C&E SOC/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4
GEOG/AFRICAN/ AFROAMER/ ANTHRO/HISTORY/ POLI SCI/SOC 277	Africa: An Introductory Survey	4
HISTORY/ASIAN/ POLI SCI 255	Introduction to East Asian Civilizations	3-4
HISTORY/GNS 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3

**SOCIOLOGY, MINOR**

This minor may only be completed by students admitted to Elementary Education options leading to certification in K-9 or Middle Childhood through Early Adolescence. A minor is not required to complete the K-9 certification program, but students may elect to complete one.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Sociology (<https://sociology.wisc.edu>) is housed in the College of Letters & Science. Students may wish to consult with the undergraduate advisor (<https://sociology.wisc.edu/undergraduate-program/academic-advising/>) in the department to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW-Madison transcript. **Students will not receive an additional certification or license in the subject area as was possible prior to fall 2022 program admission.** The Wisconsin Department of Public Instruction does not offer content licenses in association with the K-9 educator license.

**HOW TO GET IN**

This minor may only be declared by students completing Elementary Education certification in either K-9 or Middle-Childhood-through-Early-Adolescence. The declaration form is located on the School of Education's Undergraduate Admissions page and can be submitted at any time after admission into the program.

**REQUIREMENTS**

Complete a minimum of 24 credits. A minimum cumulative grade point average of 2.75 is required, based on all sociology minor coursework taken on the UW-Madison campus.

## FOUNDATIONAL CORE COURSES INTRODUCTION

Select one of the following:

Code	Title	Credits
SOC/C&E SOC 210	Survey of Sociology	3-4
SOC/C&E SOC 211	The Sociological Enterprise	3
SOC 181	Honors Introductory Seminar-The Sociological Enterprise	3-4

## RESEARCH METHODS AND STATISTICS

Students may take methods and statistics in the same semester. If students take methods and statistics in different semesters, it is recommended that methods be taken before statistics. This will provide a better entry point to the methods and materials of the field.

Code	Title	Credits
<b>Research Methods</b>		
SOC/C&E SOC 357	Methods of Sociological Inquiry	3-4
<b>Statistics</b>		
Complete one of the following statistics courses:		3-4
SOC/ C&E SOC 360	Statistics for Sociologists I	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
MATH/STAT 310	Introduction to Probability and Mathematical Statistics II	
PSYCH 210	Basic Statistics for Psychology	
STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	

## THEORY

Code	Title	Credits
SOC/C&E SOC 475	Classical Sociological Theory	3

## DISTRIBUTION REQUIREMENTS

Select **at least one course from two of the following groups** of departmental offerings. Courses used to meet the requirements above may not be applied to this requirement. Courses that appear in more than one area may fulfill only one area requirement.

## ADDITIONAL METHODS/STATISTICS

### Additional Methods/Statistics course options

Code	Title	Credits
SOC 351	Introduction to Survey Methods for Social Research	3
SOC/C&E SOC 361	Statistics for Sociologists II	4
SOC 362	Statistics for Sociologists III	4
SOC/C&E SOC 365	Data Management for Social Science Research	3-4
SOC 375	Introduction to Mathematical Sociology	3

SOC 376	Mathematical Models of Social Systems	3
SOC 461	Study Abroad in Additional Methods and Statistics <sup>1</sup>	1-6

1

This course, taken abroad, could be a UW-Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## ADDITIONAL THEORY

### Additional Theory course options

Code	Title	Credits
SOC 462	Study Abroad in Additional Theory <sup>1</sup>	1-6
SOC 476	Contemporary Sociological Theory	3

1

This course, taken abroad, could be a UW-Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## DEVIANT BEHAVIOR

### Deviant Behavior course options

Code	Title	Credits
SOC 421	Processes of Deviant Behavior	3-4
SOC/ SOC WORK 422	Social Issues in Aging	3
SOC/GEN&WS/ LEGAL ST 425	Crime, Gender and Justice	3
SOC/CHICLA/ LEGAL ST 440	Ethnicity, Race, and Justice	3-4
SOC 441	Criminology	3-4
SOC/CHICLA/ LEGAL ST 443	Immigration, Crime, and Enforcement	3-4
SOC 446	Juvenile Delinquency	3-4
SOC 463	Study Abroad in Deviant Behavior <sup>1</sup>	1-6

1

This course, taken abroad, could be a UW-Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## SOCIAL PSYCHOLOGY

### Social Psychology course options

Code	Title	Credits
SOC/PSYCH 453	Human Sexuality	4
SOC 464	Study Abroad in Social Psychology <sup>1</sup>	1-6
SOC/C&E SOC 532	Health Care Issues for Individuals, Families and Society	3
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC 535	Talk and Social Interaction	3
SOC 543	Collective Behavior	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3

SOC/AMER IND/ Poverty and Place 3  
C&E SOC 578

1

This course, taken abroad, could be a UW–Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## SOCIAL ORGANIZATION

### Social Organization course options

Code	Title	Credits
SOC/LEGAL ST 415	The Legal Profession	3-4
SOC 465	Study Abroad in Social Organization <sup>1</sup>	1-6
SOC/CHICLA 470	Sociodemographic Analysis of Mexican Migration	3
SOC/GEN&WS 611	Gender, Science and Technology	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC 621	Class, State and Ideology: an Introduction to Marxist Social Science	3
SOC 624	Political Sociology	3
SOC 626	Social Movements	3
SOC/C&E SOC 630	Sociology of Developing Societies/ Third World	3
SOC 632	Sociology of Organizations	3-4
SOC 633	Social Stratification	3
SOC 640	Sociology of the Family	3
SOC/LAW/ LEGAL ST 641	Sociology of Law	3-4
SOC/C&E SOC/ URB R PL 645	Modern American Communities	3
SOC 646	Race and Ethnic Relations	3
SOC 647	Sociology of Sport	3
SOC/ED POL 648	Sociology of Education	3
SOC/C&E SOC 650	Sociology of Agriculture	3
SOC/C&E SOC 652	Sociology of Economic Institutions	3
SOC/HISTORY 670	Capitalism, Socialism, and Democracy in America Since 1890	3-4
SOC 678	Sociology of Persecution	3

1

This course, taken abroad, could be a UW–Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## DEMOGRAPHY AND ECOLOGY

### Demography and Ecology course options

Code	Title	Credits
SOC 460	Study Abroad in Demography and Ecology <sup>1</sup>	1-6
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/ECON 663	Population and Society	3
SOC 674	Demographic Techniques I	3

1

This course, taken abroad, could be a UW–Madison sociology course in the designated area although it is not a direct equivalent to a departmental offering.

## COMMUNITY AND ENVIRONMENTAL SOCIOLOGY

### Community and Environmental Sociology course options

Code	Title	Credits
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
SOC/C&E SOC/ ENVIR ST 540	Sociology of International Development, Environment, and Sustainability	3
SOC/C&E SOC 541	Environmental Stewardship and Social Justice	3
SOC/C&E SOC 573	Community Organization and Change	3
SOC 575	Sociological Perspectives on the Life Course and Aging	3
SOC/AMER IND/ C&E SOC 578	Poverty and Place	3
SOC/C&E SOC/ URB R PL 617	Community Development	3
SOC/C&E SOC 650	Sociology of Agriculture	3

## ELECTIVES

Additional coursework, if needed, to reach the minimum of 24 credits.

## DANCE

Students who pursue an undergraduate degree in dance gain an in-depth understanding and mastery of dance as an art form and an area of scholarly inquiry. Dance courses focus on the study of various dance techniques and movement practices, dance repertory, performance, improvisation, composition, movement analysis, body studies, dance history, dance and politics, dance and identity, and dance writing. Dance courses at the University of Wisconsin–Madison stress personal creativity, individual growth, strong technical training, and historical, theoretical, and interdisciplinary knowledge.

Two undergraduate options are offered in dance. The Bachelor of Fine Arts – Dance (p. 1686) (BFA) undergraduate degree program in dance is for students with a strong interest and aptitude in dance and/or professional dance theater. The Bachelor of Science–Dance (<https://guide.wisc.edu/undergraduate/education/dance/dance-bs/>) option is designed for students who wish to combine their interest in dance with other fields of study, or to prepare for graduate work in dance studies or related disciplines. The BFA requires a minimum of 85 major credits, including public presentations of original work, while the B.S. degree requires a minimum of 57 major credits. Students are admitted to the degree program in dance by audition (<https://dance.wisc.edu/admissions-and-aid/>).

The Department of Dance also offers four certificate programs open to students across the campus: the general certificate in Dance (p. 1692), a

certificate in Pilates (p. 1694), a certificate in Dance/Movement Therapy (p. 1694), and a certificate in Dance Studies (p. 1679),

Introductory dance courses are open to all university students. Dance technique courses at the 200 level and above are also open to students with the prerequisite skill level, which is determined by placement auditions typically held during the first week of classes.

## DEGREES/MAJORS/CERTIFICATES

- Dance Studies, Certificate (p. 1679)
- Dance, B.S. (p. 1680)
- Dance, BFA (p. 1686)
- Dance, Certificate (p. 1692)
- Introductory Studies in Dance/Movement Therapy, Certificate (p. 1694)
- Pilates, Certificate (p. 1694)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website (<http://dance.wisc.edu>).

## DANCE STUDIES, CERTIFICATE

The Dance Studies Certificate is a 14-credit certificate program for any undergraduate student interested in the exploration of dance from an interdisciplinary, academic approach -- to understand its political, social and historical significance. The certificate is designed to enhance a student's main area of study, and provide knowledge and skills in the analysis, interpretation, and contextualization of dance and movement in society and culture.

Courses in writing, body studies, history and theory will prepare students to integrate the physical and theoretical knowledge of dance in written, oral, and embodied forms. Coursework for this certificate will fulfill the Comm B requirement, Ethnic Studies requirement and some Humanities and Social Science breadth requirements. Students pursuing degrees in the School of Education can also satisfy their Global Perspectives requirement with this coursework.

This program is designed for students in a broad range of disciplines including the arts, humanities, and social sciences. Students who wish to integrate dance research into their existing degree program, those considering graduate study in Dance Studies or a related field in the arts and humanities, including Art History, Theatre Studies, Performance Studies, or Cultural Studies, will benefit from this program.

This certificate program is flexible and can be completed primarily through summer coursework. Students can opt to complete the majority of the courses online, primarily in the summers, or through a mix of online and in-person courses in the summers and academic year.

## HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Dance Studies Certificate. BS, BFA, and Certificate candidates in Dance are eligible for the Dance Studies Certificate as long as there is zero overlap of coursework. Undergraduate students in good academic standing may declare this certificate. University Special students who started as an undergraduate at UW-Madison, but graduated before completing the requirements are also eligible for this certificate.

Students should meet with the Dance Studies Certificate Advisor to discuss their intention to pursue the certificate. Appointments may be arranged via email. To declare the certificate, students must also complete the application form location on the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Dance Studies Certificate requires the following course distribution for a minimum of 14 credits. At least 7 credits must be completed in residence. Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

### FOUNDATIONAL COURSE

All students are required to complete the following:

Code	Title	Credits
DANCE 200	Writing the Moving Body	3

### BODY STUDIES

Select 2 credits from the following:

Code	Title	Credits
DANCE 110	Workshop in Dance Activity	1-2
DANCE 101	Ballroom Dance I	1
DANCE 102	Ballroom Dance II	1
DANCE 103	Modern Jazz Dance	1
DANCE 105	Ballet I	1
DANCE 106	Ballet II	1
DANCE 107	Contemporary Dance I	1
DANCE 108	Contemporary Dance II	1
DANCE 115	Hip-Hop Dance Technique and Theory I	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE 111	Contemporary Dance Technique and Theory I	1-3
DANCE 112	Contemporary Dance Technique and Theory II	1-3
DANCE 211	Contemporary Dance Technique and Theory III	1-3
DANCE 212	Contemporary Dance Technique and Theory IV	1-3
DANCE 311	Contemporary Dance Technique and Theory V	1-3

DANCE 312	Contemporary Dance Technique and Theory VI	1-3
DANCE 125	Ballet Technique I	1-2
DANCE 126	Ballet Technique I-B	1-2
DANCE 225	Ballet Technique II	1-2
DANCE 226	Ballet Technique II-B	1-2
DANCE 325	Ballet Technique III	1-2
DANCE 326	Ballet Technique III-B	1-2
DANCE 131	Somatic Theory and Practices	2
DANCE 132	Workshop in Body Studies and Practices	1
DANCE 133	Relaxation Techniques for Embodiment and Stress Management	1
DANCE 135	Pilates Mat I	1
DANCE 136	Pilates Equipment I	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 213	New Movement Techniques	1-2
DANCE/ THEATRE 218	African Dance Performance	2
DANCE 231	Introduction to Dance/Movement Therapy	2
DANCE 235	Pilates Mat II	1
DANCE 236	Pilates Equipment II	2
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE 330	Functional Anatomy for Movement Practices	2

## DANCE THEORY

Select 3 credits from the following:

Code	Title	Credits
DANCE 168	Dancing Gender: Embodiment, Politics and Feminist Theory	3
DANCE 268	Political and Cultural Perspectives in Dance Studies	3

## DANCE HISTORY

Select 3 credits from the following:

Code	Title	Credits
DANCE 165	World Dance Cultures: Traditional to Contemporary	3
DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3
DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	3

## ETHNIC STUDIES BREADTH

Select 3 credits from the following:

Code	Title	Credits
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3

## CERTIFICATE COMPLETION REQUIREMENT

This certificate is intended to be completed in the context of an undergraduate degree and for those seeking this certificate that is preferred. For students who have substantially completed this certificate at UW-Madison and may need one or two courses to complete the certificate, they may do so immediately after completion of the bachelor's degree by enrolling in the course as a University Special (nondegree) student. The certificate must be completed within a year of completion of the bachelor's degree. Students should keep in mind that University Special students have the last registration priority and that may limit availability of desired courses. Financial aid is not available when enrolled as a University Special student to complete an undergraduate certificate.

## LEARNING OUTCOMES

1. Gain understanding of the main approaches and methodologies of the field of dance studies as an academic approach to dance with an interdisciplinary focus.
2. Engage with dance as a site through which cultural, social, and political identities are constructed, manifested, and negotiated.
3. Analyze dance in relation to the social, cultural, and historical circumstances in which it is embedded.
4. Integrate physical and theoretical knowledge of dance in written, oral, and embodied forms.

## DANCE, B.S.

Students pursuing an undergraduate degree in dance gain in-depth knowledge of dance as an art form and an area of scholarly inquiry. The degree provides a foundation for eventual careers in professional dance, dance teaching in K-12 and higher education, dance entrepreneurship, dance/movement therapy, Pilates, the health and fitness industry, arts administration, as well as many other fields.

The Bachelor of Science (B.S.) degree in Dance requires a minimum of 57 major credits and is designed for students who wish to pursue a degree in dance and another major or degree program in a second area of interest.

A dance degree at UW-Madison offers opportunities to:

- Study with a world-class faculty, with excellent teacher-student ratios.
- Perform frequently in faculty and student-choreographed works, in state-of-the-art facilities.
- Pursue an additional major or degree in a second area of interest.
- Experience an interdisciplinary, rigorous approach that connects dance to the arts and humanities, as well as the social, biological, physical, and biological social sciences.



- Earn scholarship and award funding for study in the academic year and summer, including departmental awards for honors study.
- Work with nationally and internationally renowned guest artists and master class instructors, such as the Bill T. Jones/Arnie Zane Dance Company, Pilobolus, Meredith Monk, Elizabeth Streb, David Parsons, Sean Curran, Danielle Russo, Carrie Hanson, Joe Goode, Susan Marshall, Kun-Yang Lin, and Tim Miller, Abdel Salaam/Forces of Nature.
- Train intensively in choreography to create solo and group works for performance.

An audition is required to declare a dance degree. Auditions are held in November and February.

The Dance department also offers four certificates: a general certificate in Dance (p. 1692), a certificate in Dance Studies (p. 1679), (p. 1679) a certificate in Dance/Movement Therapy (p. 1694), and a certificate in Pilates (p. 1694).

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

All students wishing to major in dance must complete a performance audition to be admitted to the program. Consult the Dance department website (<http://www.dance.wisc.edu/dance/admissions/how-to-apply/>) for more detailed information about the audition process.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

On-campus students wishing to be admitted to one of the dance program options must audition and also have earned a minimum 2.5 grade point average. On-campus students should obtain and submit a signed Professional Program Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) to the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. The application must be signed by the appropriate dance department advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Prospective transfer students should meet as early as possible with a dance department advisor and with an advisor in the School of Education Student Services office. Coursework taken at another institution may need to be evaluated by a faculty or staff member in dance. Transfer students must audition to be admitted to one of the dance program options. Prospective transfer students are strongly advised to meet with a Student

Services advisor in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

### ADMISSION AND APPLICATION CRITERIA FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next.

Eligibility for consideration:

- The dance department currently admits students to its programs only through a performance audition.
- Cumulative grade point average of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- Students who have transferred to and are currently enrolled in UW-Madison coursework must have a cumulative grade point average of at least a 2.5 on the UW-Madison campus, as modified by the Last 60 Credits Rule.
- Submission of all required application materials, including the dance program application and any required transcripts.

<sup>1</sup>

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW-Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW-Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic

advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

### PROGRAM STRUCTURE

The B.S. degree in dance has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Discipline-related coursework* provides an interdisciplinary foundation contributing to the performance and understanding of this art form.
- *Major* requirements offer an in-depth study of dance.
- *Elective* credits allow students to pursue areas of interest and complete the minimum number of credits required for the degree.

### DISCIPLINE-RELATED REQUIREMENTS

Code	Title	Credits
DANCE 200	Writing the Moving Body	3
DANCE 560	Current Topics in Dance: Workshop (Anatomy for Dancers )	2
	or ANAT&PHY 338 Human Anatomy Laboratory	

## MAJOR REQUIREMENTS

Complete a minimum of 57 credits. At least 15 upper-level major Dance credits (numbered 300 and above) must be taken in residence on the UW–Madison campus.

New first-year Dance–B.S. and BFA students should expect to register for three 100–level foundational major courses: DANCE 111 Contemporary Dance Technique and Theory I, 3–5 credits, DANCE 125 Ballet Technique I, and DANCE 162 First Year Workshop. These courses are taken by all dance majors in their first year, regardless of previous dance training and experience. The classes prepare students for advanced study in dance and movement technique. Dance majors are assured enrollment in these courses. DANCE 165 World Dance Cultures: Traditional to Contemporary is also strongly recommended for the first semester; this course will meet the Global Perspectives requirement in liberal studies.

### DANCE TECHNIQUE AND THEORY

#### Contemporary Dance Technique and Theory

Select a minimum of 14 credits from the following; 6 credits must be numbered 211 or higher.

Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	1-3
DANCE 112	Contemporary Dance Technique and Theory II	1-3
DANCE 211	Contemporary Dance Technique and Theory III	1-3
DANCE 212	Contemporary Dance Technique and Theory IV	1-3
DANCE 311	Contemporary Dance Technique and Theory V	1-3
DANCE 312	Contemporary Dance Technique and Theory VI	1-3

#### Ballet Technique

Select a minimum of 8 credits from the following; 4 credits must be numbered 225 or higher:

Code	Title	Credits
DANCE 125	Ballet Technique I	1-2
DANCE 126	Ballet Technique I–B	1-2
DANCE 225	Ballet Technique II	1-2
DANCE 226	Ballet Technique II–B	1-2
DANCE 325	Ballet Technique III	1-2
DANCE 326	Ballet Technique III–B	1-2

#### Additional Techniques

Select a minimum of 2 credits. Students may also select from Additional Techniques workshops listed under DANCE 110 Workshop in Dance Activity or DANCE 560 Current Topics in Dance: Workshop. Jazz and Ballroom courses do not count toward this requirement.

Code	Title	Credits
DANCE 110	Workshop in Dance Activity (Hip Hop)	1-2
DANCE 110	Workshop in Dance Activity (Tai Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1

DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

### ADDITIONAL REQUIRED COURSES

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
DANCE 140	Dance Production	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 162	First Year Workshop	1
DANCE 240	Dance Production Laboratory	1
DANCE 241	Music Fundamentals for Dancers	3
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3
Design - Complete one of:		3-4
DANCE/ART 341	Sound Design for the Performing and Visual Arts	
DANCE 345	Video Design for the Performing and Visual Arts	
ART 318	Introduction to Video, Performance & Installation Art	
ART 518	Artist's Video	
ART 531	Screen Performance	
DANCE 355	Dance Composition II	2
DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	3
DANCE 462	Senior Seminar	3
DANCE 463	Senior Project	1-2
Select 3 credits from the following:		3
DANCE 451	Dance Repertory Theater	
DANCE 452	Dance Repertory Theater	

### ELECTIVE COURSEWORK

Complete additional coursework, if necessary, to reach the minimum of 124 credits. DANCE 165 World Dance Cultures: Traditional to Contemporary is recommended and will meet the Global Perspectives requirement in liberal studies.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements below are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average in all major coursework
- 2.50 cumulative grade point average in all upper-level major coursework. Dance courses numbered 300 and above are considered to be upper-level courses.
- Major Residency. Students must complete a minimum of 15 upper-level major credits on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 124 credits are required for graduation.

### DEGREE AUDIT REPORTING SYSTEM (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Body Studies and Dance Technique) Demonstration of proficiency in the physical practice of dance.
2. (Writing and Critical Thinking) Examination of global approaches in dance, in historical, cultural, and theoretical contexts.
3. (Making and Sharing Dances) Utilization of tools of craft to engage in critical and creative investigations and assessment.

## FOUR-YEAR PLAN

### Bachelor of Science: Dance – Sample Four Year Plan

This sample four-year graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Your actual course of study will be influenced by factors such as when you are eligible to enroll in 200-level technique classes, casting decisions, and summer course selections. Use this plan along with your DARS report, the Guide, and the Course Search and Enroll app to create a sequence of classes that also reflect your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop this personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

New first-year Dance–B.S. and BFA students should expect to register for three 100-level foundational major courses: DANCE 111 (<http://guide.wisc.edu/search/?P=DANCE%20111>) Contemporary Dance Technique and Theory I, 5 credits, DANCE 125 (<http://guide.wisc.edu/search/?P=DANCE%20125>) Ballet Technique I, and DANCE 162 (<http://guide.wisc.edu/search/?P=DANCE%20162>) First Year Workshop. These courses are taken by all dance majors in their first year, regardless of previous dance training and experience. The classes prepare students for advanced study in dance and movement technique.

This degree requires a minimum of 124 credits. Contemporary dance technique and theory classes beyond the minimum requirement are strongly recommended and included in this plan as electives. Bachelor of Science – Dance students must present their senior projects in an approved public forum.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)		3 Communication A (fall or spring semester)	3

DANCE 111 (meets M,W,F)	3 DANCE 112	3
DANCE 111 (meets T, R)	2 DANCE 112	2
DANCE 125	2 DANCE 126	2
DANCE 162	1 DANCE 156	2
DANCE 165 (also meets Liberal Studies Global Perspectives requirement)	3 DANCE 157	2
Liberal Studies course work	0-3 Quantitative Reasoning A	3
	Liberal Studies course work	0-3
	<b>14</b>	<b>17</b>

**Sophomore**

Fall	Credits	Spring	Credits
DANCE 111 or 211	3	DANCE 112 or 212	3
DANCE 225 or 325	2	DANCE 226 or 326	2
MUSIC 151 (take fall or spring semester, prereq for DANCE 241)	3	MUSIC 151 (take fall or spring semester, prereq for DANCE 241)	3
DANCE 140 (take fall or spring semester)	2	DANCE 131	2
DANCE 255	2	DANCE 140 (take fall or spring semester)	2
DANCE 265	3	DANCE 365	3
DANCE 200 (also meets Communication B)	3	Liberal Studies course work	0-5
Liberal Studies course work	0-5		
	<b>18</b>		<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
DANCE 211 or 311	3	DANCE 212 or 312	3
DANCE 225 or 325	2	DANCE 226 or 326	2
DANCE 241	3	Additional Techniques	1
DANCE 355	2	DANCE 240	1
DANCE 451	1	Complete one, either this semester or next fall	3-4
ANAT&PHY 338 (also counts toward Liberal Studies Science requirement)	2	DANCE/ART 341	
Ethnic Studies	3	DANCE 345	
		ART 318	
		ART 518	
		ART 531	
		DANCE 452	1
		Quantitative Reasoning B	3
		Liberal Studies course work	4-7
	<b>16</b>		<b>15</b>

**Senior**

Fall	Credits	Spring	Credits
Complete one of the following:	3	Complete one of the following:	3
DANCE 211		DANCE 212	
DANCE 311		DANCE 312	
DANCE 225 or 325	2	DANCE 226 or 326	2
Complete one, either this semester or previous spring	3-4	DANCE 463 (take fall or spring semester)	1
DANCE/ART 341		Additional Techniques	1
DANCE 345		DANCE 452	1
ART 318		Liberal Studies or General Elective course work	6-7
ART 518			
ART 531			
DANCE 462	3		
DANCE 463 (take fall or spring semester)	1		
Liberal Studies course work	3-7		
	<b>15</b>		<b>14</b>

**Total Credits 124****ADVISING AND CAREERS****DANCE DEPARTMENT ADVISING**

All dance degree students receive targeted advising through the department's undergraduate advisor, Karen McShane-Hellenbrand (<http://dance.wisc.edu/dance/people/instructional-staff/karen-mcshane-hellenbrand/>). Dance Department advising is designed to assist students in choosing classes and evaluating their degree path. This is particularly critical for students pursuing a dance degree and an additional degree program or major.

Students may also meet with advisors in the School of Education Student Services office regarding other course requirements and concerns, see below. Current students can schedule an appointment with a School of Education advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

**SCHOOL OF EDUCATION ADVISING****ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION**

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students

- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

## CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Dance majors include:** professional dance, production, dance education in K-12 and higher education, dance entrepreneurship, and dance/movement therapy. Our graduates also work in the health and fitness industry, Pilates, arts administration, dance advocacy, as well as many other fields.

Students develop important skills that employers look for including:

- Diverse forms of communication, personal expression and connection
- Collaboration
- Creative problem solving/critical thinking
- Adaptability, versatility, and improvisation

- Resilience; ability to receive and provide feedback
- Discipline and accountability

Applied experiences, including paid internships, apprenticeship programs, career treks, and professional networking events, are available to UW Dance students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://dance.wisc.edu/>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Dance (<https://nasd.arts-accredit.org/>)

Accreditation status: Accredited. Next accreditation review: 2018-2019, site visit postponed until Spring 2022 due to COVID-19, final report forthcoming.

## DANCE, BFA

Students pursuing a BFA in dance gain in-depth knowledge of dance as an art form and an area of scholarly inquiry. The degree prepares students for careers in professional dance, provides a foundation for teaching in K-12 and higher education, dance entrepreneurship, dance/movement therapy, Pilates, the health and fitness industry, arts administration, as well as many other fields.

The Bachelor of Fine Arts (BFA) in Dance requires a minimum of 85 major credits, and is designed for students who wish to spend more time preparing for a professional career in dance.

A dance degree at UW-Madison offers opportunities to:

- Study with a world-class faculty, with excellent teacher-student ratios.
- Perform frequently in faculty and student-choreographed works, in state-of-the-art facilities.
- Experience an interdisciplinary approach that connects dance to the arts and humanities, as well as the social, biological, physical, and biological social sciences.
- Earn scholarship and award funding for study in the academic year and summer, including departmental awards for honors study.
- Work with nationally and internationally renowned guest artists and master class instructors, such as the Bill T. Jones/Arnie Zane Dance Company, Pilobolus, Meredith Monk, Elizabeth Streb, David Parsons, Sean Curran, Danielle Russo, Carrie Hanson, Joe

Goode, Susan Marshall, Kun-Yang Lin, and Tim Miller, Abdel Salaam/Forces of Nature.

- Train intensively in choreography to create solo and group works for performance.

An audition is required to declare a dance degree. Auditions are held in November and February.

The Dance Department also offers four certificates: a general certificate in Dance (<https://guide.wisc.edu/undergraduate/education/dance/dance-certificate/>), a certificate in Dance Studies (p. 1679), a certificate in Dance/Movement Therapy (<https://guide.wisc.edu/undergraduate/education/dance/introductory-studies-dance-movement-therapy-certificate/>), and a certificate in Pilates (<https://guide.wisc.edu/undergraduate/education/dance/pilates-certificate/>).

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

All students wishing to major in dance must complete a performance audition to be admitted to the program. Consult the Dance department website (<http://www.dance.wisc.edu/dance/admissions/how-to-apply/>) for more detailed information about the audition process.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

On-campus students wishing to be admitted to one of the dance program options must audition and also have earned a minimum 2.5 grade point average. On-campus students should obtain and submit a signed Professional Program Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>), to the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, at any time during the academic year. The application must be signed by the appropriate dance department advisor.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the university to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Prospective transfer students should meet as early as possible with a dance department advisor and with an advisor in the School of Education Student Services office. Coursework taken at another institution may need to be evaluated by a faculty or staff member in dance. Transfer students must audition to be admitted to one of the dance program options. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with a School of Education advisor in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

### ADMISSION AND APPLICATION CRITERIA FOR ADMISSION

Requirements and selection criteria may be modified from one application/admission period to the next. Eligibility for consideration:

- The dance department currently admits students to its programs only through a performance audition.
- Cumulative grade point average of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- On-campus transfer students must have a cumulative grade point average of at least a 2.5 on the UW-Madison campus, as modified by the Last 60 Credits Rule.
- Submission of all required application materials, including the dance program application and any required transcripts.

<sup>1</sup>

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW-Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW-Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted"

coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

#### Complete Liberal Studies Electives (p. 1554) to total 40 Credits.

### PROGRAM STRUCTURE

The BFA degree in Dance has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Discipline-related coursework* provides an interdisciplinary foundation contributing to the performance and understanding of this art form.
- *Major* requirements offer an in-depth study of dance.
- *Elective* credits allow students to pursue areas of interest and complete the minimum number of credits required for the degree.

### DISCIPLINE-RELATED REQUIREMENTS

Code	Title	Credits
DANCE 200	Writing the Moving Body	3
DANCE 560	Current Topics in Dance: Workshop (Anatomy for Dancers)	2
	or ANAT&PHY 338 Human Anatomy Laboratory	



## MAJOR REQUIREMENTS

Complete a minimum of 85 credits. At least 15 upper-level major Dance credits (numbered 300 and above) must be taken in residence on the UW-Madison campus.

New first-year Dance-B.S. and BFA students should expect to register for three 100-level foundational major courses: DANCE 111 Contemporary Dance Technique and Theory I, 5 credits, DANCE 125 Ballet Technique I, and DANCE 162 First Year Workshop for a total of 11 credits. These courses are taken by all dance majors in their first year, regardless of previous dance training and experience. The classes prepare students for advanced study in dance and movement technique. Dance majors are assured enrollment in these courses. DANCE 165 World Dance Cultures: Traditional to Contemporary is also strongly recommended for the first semester; this course will meet the Global Perspectives requirement in liberal studies.

### DANCE TECHNIQUE AND THEORY

#### Contemporary Dance Technique and Theory

Select a minimum of 18 credits from the following; at least 9 credits must be from DANCE 311 Contemporary Dance Technique and Theory V or DANCE 312 Contemporary Dance Technique and Theory VI. Note: 100- and 200-level technique classes must be taken for 3 credits; 300 and 400 level may be taken for 2 credits.

Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	
DANCE 112	Contemporary Dance Technique and Theory II	
DANCE 211	Contemporary Dance Technique and Theory III	
DANCE 212	Contemporary Dance Technique and Theory IV	
DANCE 311	Contemporary Dance Technique and Theory V	
DANCE 312	Contemporary Dance Technique and Theory VI	

#### Ballet Technique

Select a minimum of 14 credits from the following; 10 must be numbered 225 or higher:

Code	Title	Credits
DANCE 125	Ballet Technique I	
DANCE 126	Ballet Technique I-B	
DANCE 225	Ballet Technique II	
DANCE 226	Ballet Technique II-B	
DANCE 325	Ballet Technique III	
DANCE 326	Ballet Technique III-B	

#### Additional Techniques

Select a minimum of 6 credits of the following. Students may also select from Additional Techniques workshops listed under DANCE 110 Workshop in Dance Activity or DANCE 560 Current Topics in Dance: Workshop. Jazz and Ballroom courses do not count toward this requirement.

Code	Title	Credits
DANCE 110	Workshop in Dance Activity (Hip Hop)	1-2
DANCE 110	Workshop in Dance Activity (Tai Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

### BODY STUDIES

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
Select 4 credits of the following:		4
DANCE 110	Workshop in Dance Activity (Yoga)	1-2
DANCE 132	Workshop in Body Studies and Practices	
DANCE 135	Pilates Mat I	
DANCE 235	Pilates Mat II	
DANCE 136	Pilates Equipment I	
DANCE 236	Pilates Equipment II	
DANCE 213	New Movement Techniques	

### CRITICAL AND CREATIVE INVESTIGATIONS

Code	Title	Credits
DANCE 140	Dance Production	2
MUSIC 151	Basic Concepts of Music Theory	3
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 162	First Year Workshop	1
DANCE 241	Music Fundamentals for Dancers	3
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3
Design - Complete one of the following:		3-4
DANCE/ART 341	Sound Design for the Performing and Visual Arts	
DANCE 345	Video Design for the Performing and Visual Arts	
ART 318	Introduction to Video, Performance & Installation Art	
ART 518	Artist's Video	
ART 531	Screen Performance	
DANCE 355	Dance Composition II	2

DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	3
DANCE 374	Teaching Dance	3
Dance Repertory Theater - Complete 6 credits from the following:		
DANCE 451	Dance Repertory Theater	
DANCE 452	Dance Repertory Theater	
DANCE 455	Dance Composition III	2
DANCE 462	Senior Seminar	3
DANCE 463	Senior Project	1-2

## PUBLIC PRESENTATIONS

BFA students must create one solo and one group piece (trio or larger) after the completion of DANCE 255 Movement Composition for the Performing and Visual Arts. These works must be submitted for faculty approval and publicly presented in concert. Senior projects must be presented in an approved public forum.

## ELECTIVE CREDITS

Complete additional coursework, if necessary, to reach the minimum of 125 credits. DANCE 165 World Dance Cultures: Traditional to Contemporary is recommended and will meet the Global Perspectives requirement in liberal studies.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Requirements are based on UW–Madison coursework.

- 2.75 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average in all major coursework
- 2.50 cumulative grade point average in all upper-level major coursework. Dance courses numbered 300 and above are considered to be upper-level courses.
- Major Residency. Students must complete a minimum of 15 upper-level major credits on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- A minimum of 125 credits are required for graduation.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such

as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Body Studies and Dance Technique) Demonstration of proficiency in the physical practice of dance.
2. (Writing and Critical Thinking) Examination of global approaches in dance, in historical, cultural, and theoretical contexts.
3. (Making and Sharing Dances) Utilization of tools of craft to engage in critical and creative investigations and assessment.

## FOUR-YEAR PLAN

### Dance: Bachelor of Fine Arts – Sample Four Year Plan

This sample four-year graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Your actual course of study will be influenced by factors such as when you are eligible to enroll in 200 and 300-level technique classes, casting decisions, and summer course selections. Use this plan along with your DARS report, the Guide, and the Course Search and Enroll app to create a sequence of classes that also reflect your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop this personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise

your plan several times during your academic career here, based on your activities and changing academic interests.

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This degree requires a minimum of 125 credits, although additional contemporary dance technique and theory courses are strongly recommended. This plan includes 7 credits beyond the minimum requirement in this area. BFA Dance students must create one Solo and one Group piece (trio or larger) after completion of 255. These works must be faculty approved for public presentation.

**Freshman**

Fall	Credits	Spring	Credits
DANCE 111 (meets M,W,F)	3	Communication A	3
DANCE 111 (meets T, R)	2	DANCE 112	3
DANCE 125	2	DANCE 112	2
DANCE 162	1	DANCE 126	2
DANCE 165 (also meets Liberal Studies Global Perspectives requirement)	3	DANCE 156	2
Liberal Studies course work (U.S. or European History recommended)	4	DANCE 157	2
		Quantitative Reasoning A	3
<b>15</b>		<b>17</b>	

**Sophomore**

Fall	Credits	Spring	Credits
DANCE 211	3	DANCE 212	3
DANCE 225 or 325	2	DANCE 226 or 326	2
DANCE 200 (also meets Liberal Studies and Communication B)	3	Additional Techniques	1
DANCE 255	2	DANCE 131	2
DANCE 265	3	DANCE 140	2
DANCE 451	1	DANCE 365	3
Ethnic Studies (not from Dance) or other Liberal Studies course work <sup>1</sup>	3	DANCE 452	1
		MUSIC 151 (prereq for Dance 241)	3
<b>17</b>		<b>17</b>	

**Junior**

Fall	Credits	Spring	Credits
DANCE 311	3	DANCE 312	3
DANCE 225 or 325	2	DANCE 226 or 326	2
DANCE 241	3	Additional Techniques	2

DANCE 355	2	Complete one, either this semester or next fall	3-4
DANCE 451	1	DANCE/ART 341	
Additional Techniques	1	DANCE 345	
Body Studies	2	ART 318	
ANAT&PHY 338 (also counts toward Liberal Studies Science requirement)	2	ART 518	
		ART 531	
		DANCE 374	3
		DANCE 452	1
		Quantitative Reasoning B	3
		Liberal Studies course work	0-3
<b>16</b>		<b>17</b>	

**Senior**

Fall	Credits	Spring	Credits
DANCE 311	2	DANCE 312	1
DANCE 225 or 325	2	Additional Techniques	1
Complete one, either this semester or previous spring	3-4	Body Studies	2
DANCE/ART 341		DANCE 452	1
DANCE 345		DANCE 455	2
ART 318		DANCE 463	1
ART 518		Liberal Studies course work	7
		ART 531	
DANCE 451	1		
DANCE 462	3		
Additional Techniques	1		
Liberal Studies course work	6-9		
<b>18</b>		<b>15</b>	

**Total Credits 132**

1

Some Dance department courses meet both the ethnic studies and additional techniques requirements. If this option is selected, a three-credit liberal studies course must be completed this semester.

**ADVISING AND CAREERS**

**DANCE DEPARTMENT ADVISING**

All dance degree students receive targeted advising through the department’s undergraduate advisor, Karen McShane-Hellenbrand (<http://dance.wisc.edu/dance/people/instructional-staff/karen-mcshane-hellenbrand/>). Dance Department advising is designed to assist students in choosing classes and evaluating their degree path. This is particularly critical for students pursuing a dance degree and an additional degree program or major.

Students may also meet with advisors in the School of Education Student Services office regarding other course requirements and concerns,

see below. Current students can schedule an appointment with a School of Education advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

## SCHOOL OF EDUCATION ADVISING

### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Dance majors include:** professional dance, production, dance education in K-12 and higher education, dance entrepreneurship, and dance/movement therapy. Our graduates also work in the health and fitness industry, Pilates, arts administration, dance advocacy, as well as many other fields.

Students develop important skills that employers look for including:

- Diverse forms of communication, personal expression and connection
- Collaboration
- Creative problem solving/critical thinking
- Adaptability, versatility, and improvisation
- Resilience; ability to receive and provide feedback
- Discipline and accountability

Applied experiences, including paid internships, apprenticeship programs, career treks, and professional networking events, are available to UW Dance students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website. (<http://dance.wisc.edu/>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## ACCREDITATION

### ACCREDITATION

National Association of Schools of Dance (<https://nasd.arts-accredit.org/>)

Accreditation status: Accredited. Next accreditation review: 2018-2019, site visit postponed until Spring 2023 due to COVID-19, final report forthcoming.

## DANCE, CERTIFICATE

The Dance Certificate is a 19-credit program, open to all students. Students who pursue a Dance Certificate often have a background in dance, but may not be seeking a degree in dance. Others are beginning dance students.

The program provides a foundation in contemporary dance practice and theory, as well as offering opportunities in a variety of movement, somatic, and creative practice courses including contemporary dance, ballet,

movement analysis, improvisation, dance composition, as well as dance history. The certificate also offers students the flexibility of choosing among a wide variety of courses that may interest them, including hip-hop, African, Tai Ji, among others. Students may also participate in performance opportunities if they have an interest in performance.

## HOW TO GET IN

Undergraduate students in good academic standing, with a cumulative GPA of 2.50 or higher, may declare this certificate.

Students must meet with the dance certificate advisor to discuss their intention to pursue the certificate. Students will enroll in two semesters of dance technique and apply for admission to the Dance Certificate at the end of the second semester. Students intending to pursue the Dance Certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Dance Certificate requires the following course distribution for a minimum of 19 credits.

#### CONTEMPORARY DANCE TECHNIQUE AND THEORY

Select 6 credits from the following:

Code	Title	Credits
DANCE 111	Contemporary Dance Technique and Theory I	1-3
DANCE 112	Contemporary Dance Technique and Theory II	1-3
DANCE 211	Contemporary Dance Technique and Theory III	1-3
DANCE 212	Contemporary Dance Technique and Theory IV	1-3
DANCE 311	Contemporary Dance Technique and Theory V	1-3
DANCE 312	Contemporary Dance Technique and Theory VI	1-3

#### BALLET TECHNIQUE

Select 2 credits from the following:

Code	Title	Credits
DANCE 125	Ballet Technique I	1-2
DANCE 126	Ballet Technique I-B	1-2
DANCE 225	Ballet Technique II	1-2
DANCE 226	Ballet Technique II-B	1-2
DANCE 325	Ballet Technique III	1-2
DANCE 326	Ballet Technique III-B	1-2

#### ADDITIONAL TECHNIQUES

Select 2 credits from the following. Students may also select from Additional Techniques workshops listed under DANCE 110 Workshop

in Dance Activity or DANCE 560 Current Topics in Dance: Workshop

Code	Title	Credits
DANCE 110	Workshop in Dance Activity (Hip Hop)	1-2
DANCE 110	Workshop in Dance Activity (Tai Ji)	1-2
DANCE 116	Workshop in World Dance	2
DANCE 118	African Dance	1
DANCE/ ASIAN AM 121	Asian American Movement	3
DANCE/ THEATRE 218	African Dance Performance	2
DANCE/ AFROAMER/ MUSIC 318	Cultural Cross Currents: West African Dance/Music in the Americas	3
DANCE/FOLKLORE/ THEATRE 321	Javanese Performance	2
DANCE/FOLKLORE/ THEATRE 421	Javanese Performance Repertory	2

#### ADDITIONAL REQUIRED COURSES

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
or DANCE 157	Introduction to Movement Analysis	
DANCE 156	Movement as Material Through Improvisation	2
DANCE 255	Movement Composition for the Performing and Visual Arts	2
DANCE 265	Dance History I: Western Theatrical Dance from the Renaissance through the 1920s	3
or DANCE 365	Dance History II: Directions and Issues of Contemporary Dance	

### CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate technical specificity, musicality and artistic confidence in ballet and contemporary dance techniques through sequenced skill level progressions.
2. Recognize, identify and embody a wide range of somatic theories and practices and produce work investigating its impacts and uses in contemporary dance as practice.
3. Demonstrate an intermediate level of contemporary dance literacy and artistry.
4. Develop and practice vocabulary and methodology for analyzing and discussing dance in performance and historical contexts and begin to respond critically and thoughtfully to dance scholarship.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website (<http://dance.wisc.edu>).

## INTRODUCTORY STUDIES IN DANCE/MOVEMENT THERAPY, CERTIFICATE

Dance/movement therapy (DMT) is one of the creative arts therapies. It is a form of psychotherapy that uses movement, both creative and functional, as well as words, to help people—those who are generally healthy as well as those dealing with emotional, mental, or physical problems—to regain a sense of wholeness by experiencing the fundamental unity of body, mind, and spirit. The dance therapy certificate introduces students to the fascinating nonverbal aspects of human communication and its applications to a wide range of other fields such as social work, teaching, occupational therapy, physical therapy, and communication disorders.

Students will also be introduced to the use of movement in the fields of violence prevention, behavior management, and social skills development from a movement or body/mind perspective. Students who complete this certificate are prepared to attend graduate school in the field of dance/movement therapy, a requirement for the professional practice in this field, or to use embodied practices in related fields. In addition, students develop a repertoire of strategies to help cope with the stress and anxiety inherent in college life and develop insights into their own body/mind connections.

This certificate is also available to individuals who have already completed a bachelor's degree; see the Nondegree/Visiting Student Guide (<https://guide.wisc.edu/nondegree/>).

## HOW TO GET IN

### DECLARATION PROCESS

Prospective certificate students should meet with the Dance/Movement Therapy Certificate advisor to discuss their intentions to pursue the certificate. Enroll in the first- or second-semester dance/movement therapy course:

- DANCE 231 Introduction to Dance/Movement Therapy or
- DANCE 232 Introduction to Dynamics of Dance Therapy.

Application is usually made directly after the completion of Introduction to Dynamics of Dance Therapy. Students intending to pursue the Dance/Movement Therapy Certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

## REQUIREMENTS

### CERTIFICATE COURSE REQUIREMENTS

The DMT certificate requires a minimum of 19 credits.

### SUPPORTIVE DISCIPLINARY COURSEWORK

Choose a course (3-credit minimum) from the following departments: Counseling Psychology ([http://guide.wisc.edu/courses/coun\\_psy/](http://guide.wisc.edu/courses/coun_psy/)), Educational Psychology ([http://guide.wisc.edu/courses/ed\\_psy/](http://guide.wisc.edu/courses/ed_psy/)), Psychology (<http://guide.wisc.edu/courses/psych/>), Rehabilitation Psychology and Special Education ([http://guide.wisc.edu/courses/rp\\_se/](http://guide.wisc.edu/courses/rp_se/)).

### DANCE DEPARTMENT COURSEWORK

Code	Title	Credits
DANCE 131	Somatic Theory and Practices	2
DANCE 156	Movement as Material Through Improvisation	2
DANCE 157	Introduction to Movement Analysis	2
DANCE 231	Introduction to Dance/Movement Therapy	2
DANCE 232	Introduction to Dynamics of Dance Therapy	2
DANCE 331	Dynamics of Dance Therapy	3
DANCE 431	Dance Therapy Practicum	3

### UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. (Body Studies) Gain skill in expressing through movement and understanding its connection to emotion.
2. Develop literacy about the field of Dance/Movement Therapy.
3. Practice and practical work in movement analysis as a tool for Dance/Movement Therapy.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website (<http://dance.wisc.edu>).

## PILATES, CERTIFICATE

The Pilates certificate is a 20-credit program that includes coursework in the classic Pilates mat and equipment repertoire, current teaching

methods, and functional anatomy. The certificate prepares students to teach Pilates in a studio setting, and also creates a practical foundation for those who wish to pursue graduate work in movement-based fields.

This certificate program is open to all interested students, and is often pursued by students working toward degrees in dance, kinesiology, athletic training, physical therapy, occupational therapy, or other health/fitness fields.

The curriculum can be completed in 2 years. Upon completion, students are encouraged to sit for the Pilates Method Alliance certification exam to earn their credentials as nationally certified Pilates teachers.

This certificate is also available to individuals who have already completed a Bachelor's degree; see the Nondegree/Visiting Student Guide (<http://guide.wisc.edu/nondegree/>).

## HOW TO GET IN

### DECLARATION PROCESS

Students should meet with the Pilates certificate advisor to discuss their intention to pursue the certificate. Appointments may be arranged via email. To declare the certificate, students must also complete the application form (<https://education.wisc.edu/academics/certificates/>) located on the School of Education's Certificate Programs page.

## REQUIREMENTS

### CERTIFICATE COURSE REQUIREMENTS

The Pilates certificate requires a minimum of 20 credits. Collette Stewart is the advisor for the Pilates certificate, [stewartl@wisc.edu](mailto:stewartl@wisc.edu); interested students should contact her for an advising appointment.

Code	Title	Credits
DANCE 135	Pilates Mat I	1
DANCE 136	Pilates Equipment I	2
DANCE 235	Pilates Mat II	1
DANCE 236	Pilates Equipment II	2
DANCE 237	Pilates Studio I	3
DANCE 330	Functional Anatomy for Movement Practices	2
DANCE 337	Pilates Studio II	3
DANCE 375	Pilates Teaching Methods	1
DANCE 376	Pilates Teaching I	2
DANCE 476	Pilates Teaching II	3

### UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

- (Pilates Practice - Strength, Focus, Movement Efficiency) Demonstrate proficiency in Pilates exercises, including fundamental exercises and beginner through advanced mat and equipment work. Students will show significant improvement in body awareness, physical skill and strength, and efficient movement patterning.
- (Pilates Teaching - Safety, Clarity, Communication) Confidently teach one-on-one and group Pilates classes, effectively communicating physical and conceptual ideas about the body to a variety of learning styles, body types and physical backgrounds.
- (Anatomical Approaches to Pilates) Integrate current anatomical research into practice and teaching, using a variety of somatic approaches to embodying healthy anatomical function.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Dance can be found on the department's website (<http://dance.wisc.edu>).

## EDUCATION - SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, BSE (p. 1695)

## INDIVIDUAL MAJOR, BSE

The individual major provides undergraduates with an opportunity to develop a unique course of study; one that is interdepartmental and not reflected in existing degree programs. Completion of the individual major does not lead to a professional license or certification, although graduates may be interested in pursuing alternative educational careers or graduate work. Graduates earn a B.S.-Education degree.

## HOW TO GET IN

### ADMISSION ELIGIBILITY REQUIREMENTS

To be eligible, applicants must:

- earn a 2.75 cumulative GPA on the UW-Madison campus.<sup>1</sup>
- complete a minimum of 54 credits
- receive approval of major program proposal submitted by the applicant.

1

For alternative calculation of cumulative GPA, see Last 60 Credits Rule.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to the program. GPAs will be calculated using

- all transferable college-level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## APPLICATION PROCEDURES

Once a committee of three persons has been chosen in accord with the guidelines and required courses have been selected, students should proceed as follows:

- Submit an Individual Major in Education proposal form (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>).
- Submit the program plan and narrative with the transfer application for associate dean's approval. The three-member committee must sign the proposal in the spaces indicated. Failure to submit a program narrative will void the transfer.

Once an application form has been submitted, changes must be approved by both the chair of the committee and the associate dean. Changes must be recorded on the program plan. If more than two program changes are made, a new application form must be filed by the student.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives



**Complete** Liberal Studies Electives (p. 1554) to total **40 Credits**.

## PROGRAM STRUCTURE

The Bachelor of Science (B.S.) degree program with an individual major has three components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major* requirements permit in-depth study of a unique area within the School of Education. Students create their own, interdepartmental major following the guidelines established by the school. When completed, the title of the individual major is listed on the student's transcript.
- *Elective* credits make it possible to pursue additional areas of interest and are necessary to reach the minimum of 120 credits required for the degree.

## REQUIREMENTS OF THE INDIVIDUAL MAJOR DEVELOPMENT OF THE MAJOR

Students must have an area of interest that they wish to develop into a 36–42 credit formalized program of study, or major. Advisors in Education Student Services, Room 139 Education Building, 1000 Bascom Mall, 608-262-1651, can discuss students' interests and help frame the written narrative required of the major. Current students can schedule an appointment with an advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

Applicants must develop a narrative describing the proposed course of study and its related career goals. Information should be included which will enable a faculty committee to identify the relationship among the proposed program of study, a general interest in education, and career goals. A program title cannot duplicate the existing title of any program at UW–Madison.

### SELECTION OF MAJOR COURSEWORK

Select courses that support the program narrative, in consultation with the major advisor; see below. **All courses in the major must be from School of Education course offerings.** All credits in the major must be completed after admission into the program (IME classification).

Additional requirements regarding the major are:

- To ensure depth and breadth of study, no more than two-thirds of the total credits in a major can be taken from any one department (i.e., if a major is 36 credits, no more than 24 credits can be in one department).
- A sequential development of courses must be planned in consultation with the major advisor and committee, and must be approved by the committee. The course sequence must include beginning through advanced levels of work as prescribed by the credit distribution.
- At least 20 of the IME credits must be at the intermediate or advanced levels (generally numbered 300 or above, but this varies in some departments).
- Courses in the School of Education completed prior to admission to the IME classification may not be used toward satisfaction of the 36–42 credits in the major without the faculty committee and associate

dean's approval. The credits may count toward the 120 credits required for graduation.

- Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- An individual major which essentially parallels an existing departmental major will not be accepted.
- Directed study credits (e.g. 399, 699) are acceptable, but each course must be accompanied by a statement that includes a description of the focus of study, the requirements for successful completion of the credits, and a discussion of the applicability of content to the proposed individual major. Usually no more than 3 credits of Independent Study will be allowed. Approval of the associate dean is required in order to exceed three credits.
- Students must complete prerequisites for all courses and, in some departments, may be required to complete foundational courses.

## SELECTING THE ADVISORY COMMITTEE AND MAJOR ADVISOR

The applicant must create a three-member committee to oversee his or her work. Only assistant, associate, and full professors may serve on the committee; individuals holding such titles as Lecturer or Instructor cannot serve in this capacity. One of the committee members will be selected by the student to be the major advisor. The major advisor must be from a department within the School of Education and from the department in which the majority of courses for the individual major will be taken, i.e., the core area of study. The second faculty member must be from the same department as the major advisor/committee chair. The third faculty member must be from another department in the School of Education in which courses will be taken for the individual major. The associate dean serves as ex officio to the three-member committee and gives final approval to all programs and any exceptions.

## ELECTIVE CREDITS

Elective credits make it possible to pursue additional areas of interest. Many students, for example, use their elective credits to complete an additional major from the College of Letters & Science. Some use this second major to complement their individual major, while others select second majors that are completely unrelated to their first. Elective credits are necessary to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

Graduation requirements are based on UW–Madison coursework. Graduation GPA requirements may be modified by the Last 60 Credits Rule (p. 1545).

- 2.75 cumulative grade point average.
- 2.75 cumulative grade point average across all major coursework
- 2.75 cumulative grade point average across all upper-level (numbered 300 and above) major coursework
- Degree candidates must complete at least 120 total credits.
- Major residency. Degree candidates must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus.

## DEGREE AUDIT (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## FOUR-YEAR PLAN

### Individual Major: Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and the Course Guide to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide

for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

### Development of the Major

Students must have an area of interest that they wish to develop into a 36–42 credit formalized program of study, or major. Advisors in the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, 608–262-1651, can discuss your interests and help frame the written narrative required of the major. Current students can schedule an appointment with an advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

Applicants must develop a narrative describing the proposed course of study and its related career goals. Information should be included which will enable a faculty committee to identify the relationship among the proposed program of study, a general interest in education, and career goals. All courses in the major must be from School of Education course offerings and all credits in the major must be completed after admission into the major (IME classification). The title of the major cannot duplicate the existing title of any other major or program at UW–Madison. Consult the Guide for more information on creating an individual major and its requirements.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	12-15	Ethnic Studies	3
		Quantitative Reasoning A	3
		Liberal Studies course work	6-9
	<b>15</b>		<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits
Communication B	3	Develop and submit major proposal for approval	
Liberal Studies course work	12	Quantitative Reasoning B	3
		Liberal Studies or General Elective course work	12
	<b>15</b>		<b>15</b>

### Junior

Fall	Credits	Spring	Credits
Major course work <sup>1</sup>	9-12	Major course work	9-12
Liberal Studies or General Elective course work	3-6	Liberal Studies or General Elective course work	3-6
	<b>15</b>		<b>15</b>

### Senior

Fall	Credits	Spring	Credits
Major course work (upper level)	9-12	Major course work (upper level)	9-12

Liberal Studies or General Elective course work	3-6 Liberal Studies or General Elective course work	3-6
<b>15</b>		<b>15</b>

**Total Credits 120**

1

At least 15 credits of major course work must be upper-level (numbered 300 and above) and taken in residence.

## ADVISING AND CAREERS

### ADVISING FOR THE INDIVIDUAL MAJOR

Students interested in the Individual Major should first consult with an advisor in the School of Education Student Services office, see below. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Eventually, a committee to oversee the major will be formed and also provide advising in the major.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

#### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## EDUCATIONAL POLICY STUDIES

The Department of Educational Policy Studies offers many courses for undergraduate students, including courses in the history, sociology, anthropology, economics, and philosophy of education, comparative and international education, and educational equity. Courses emphasize the impact of educational programs and policies on equity, justice, and well-being. The department has strong ties with institutions and scholars in other countries.

The Department of Educational Policy Studies offers an undergraduate Bachelor of Science degree program in Education Studies (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/education-studies-bs/>). This program is designed to meet the needs of a growing number of undergraduate students who are interested in working in domestic and/or global educational policy and practice.

The Department features four certificate programs.

- The popular Educational Policy Studies (EPS) Certificate (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/educational-policy-studies-certificate/>) formalizes a student's interest in education policy, generally.
- The Social Justice and Education Certificate (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/social-justice-education-certificate/>) provides students with a foundational understanding of the social, political, and

economic inequities that shape our schools and broader society, as well as the ways in which educators, students, administrators, parents, and community members have sought to interrupt these inequities (historically and in the contemporary period).

- The Global Languages, Cultures, and Education Certificate (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/global-cultures-languages-education-certificate/>) courses examine the relationships among cultural diversity, social inequality, and language and literacy. They provide students with skills to work globally, within and beyond schools, in the fields of language policy, planning, and programming and culture, communication, and education.
- The International Education and Development Certificate (<https://guide.wisc.edu/undergraduate/education/educational-policy-studies/international-development-education-certificate/>) investigates the complex issues that shape international educational policies, programming, and practices as they address challenges such as poverty, inequality, forced migration, sustainability, colonialism, and human rights. Students explore careers in international development education and global service with governmental and non-governmental organizations, educational institutions, and community development organizations.

- compete for grants (<https://eps.education.wisc.edu/about/student-awards/>) for research or applied work and awards (<https://eps.education.wisc.edu/about/student-awards/>) in writing, research, and community-engaged scholarship
- acquire qualitative, quantitative, and historical research skills to study current issues in education policy and apply knowledge to practice

Through coursework, projects, advising, and independent studies, the Education Studies major prepares students for work in educational settings such as:

- Governmental agencies
- Non-governmental organizations (both domestic and international)
- Think tanks and policy institutes
- Community organizations
- Corporate, community, and non-traditional educational spaces

Graduates might serve as education and policy analysts, education specialists, policy researchers, program directors, youth workers, or in other positions of institutional leadership. They will also be well prepared to work in government, education, and social justice-related organizations, or to pursue advanced studies in education or educational policy at the master's and doctoral level.

Graduates will receive a Bachelor of Science degree in Education Studies from the School of Education. This program does not lead to teacher certification, but it can enhance and complement teacher preparation programs. Students interested in gaining teaching licenses after graduation should connect with the School of Education Student Services office or the School of Education Career Center (<https://careercenter.education.wisc.edu/>) offices on campus to discuss their options.

Students interested in pursuing this major are encouraged to consult with advising staff at the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, 608-262-1651 or [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu). Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

## DEGREES/MAJORS/CERTIFICATES

- Education Studies, B.S. (p. 1700)
- Educational Policy Studies, Certificate (p. 1707)
- Global Cultures, Languages, and Education, Certificate (p. 1708)
- International Development and Education, Certificate (p. 1717)
- Social Justice and Education, Certificate (p. 1718)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu/>)

## EDUCATION STUDIES, B.S.

The Education Studies degree program addresses urgent questions related to domestic and global education policy and practice. Majors become thought leaders who engage critically and ethically in educational policy debates and practice. While pursuing Education Studies, students (<https://eps.education.wisc.edu/current-students/student-profiles/>) can expect to:

- focus on the relationships among education, inequality, and social justice
- investigate at the local, national, and global levels, the connections between education and other policy areas, including housing, healthcare, migration, justice, political reforms, economic development, and foreign policy
- explore contemporary educational debates from early childhood through K-12, higher education, and the workforce
- engage in community-based learning, study abroad and study away, career development, internships, and research experiences related to education studies

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The Education Studies major may be completed either as the primary major or as an additional ("double") major.

#### PRIMARY MAJOR IN EDUCATION STUDIES

Undergraduate students interested in completing the Bachelor of Science–Education Studies degree program will fulfill the School of Education's liberal studies, and other degree requirements in addition to the 30 credits required for the Education Studies major.

#### ADDITIONAL MAJOR IN EDUCATION STUDIES

Undergraduate students from all schools and colleges on campus (including the School of Education) may declare Education Studies as an additional major. Students completing Education Studies as an additional

major do not need to complete the School of Education's liberal studies and other degree requirements. For application information, go directly to the Additional Major in Education Studies (p. 1701) section below.

## ENTERING THE SCHOOL OF EDUCATION

### NEW AND CURRENT UW-MADISON STUDENTS

**Incoming freshmen** enter directly into the Bachelor of Science–Education Studies degree program upon admission to UW–Madison; list Education Studies as the intended major. No additional application to Education Studies is required. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

**All other on-campus students** will submit an application following a meeting with an advisor in the School of Education Student Services office. Call 608-262-1651 to schedule an appointment; current students can also schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

### PROSPECTIVE TRANSFER STUDENTS

Transfer students must be admissible to the university to enroll in a School of Education degree program. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Transfer students enter directly into the Bachelor of Science–Education Studies degree program upon admission to UW–Madison; list Education Studies as the intended major. No additional application to Education Studies is required. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective students who already hold an undergraduate degree must be admissible to the university to enroll in a School of Education degree program. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Applicants must also meet the following criteria for admission as a second undergraduate degree candidate in the School of Education. Candidates must:

- be seeking a new major that is substantially different from their previous degree work;
- need to complete at least 15 upper-level credits in the new major;
- need to complete at least 30 credits beyond their previous coursework.

When admitted, second degree candidates enter directly into the Bachelor of Science–Education Studies degree program. No additional application to Education Studies is required.

Prospective students who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of

their application to UW–Madison. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

## APPLICATION AND ADMISSION

While new first year students and off-campus transfers are admitted directly to the Bachelor of Science–Education Studies degree program, all other current UW–Madison students seeking to enter the B.S.–Education Studies degree program must apply for admission to the program. Requirements and selection criteria may be modified from one application/admission period to the next. Potential applicants must consult with an advisor in the School of Education Student Services office prior to submitting an application. Call 608-262-1651 to schedule an appointment; current students can also schedule an appointment with an advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

### CRITERIA FOR ADMISSION

Eligibility for admission consideration to Bachelor of Science–Education Studies degree:

- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule described below. Note: Students declaring Education Studies as an additional major are not held to this requirement.
- Submission of all required application materials, including program application and transcripts.

### Last 60 Credits Rule

Two grade point averages may be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## ADDITIONAL MAJOR IN EDUCATION STUDIES

Undergraduate students from all schools and colleges on campus (including the School of Education) may declare Education Studies as an additional major. Students wishing to declare the additional major must visit an advisor in the School of Education Student Services office to complete the declaration form; call 608-262-1651 or schedule an appointment with an advisor online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. The declaration must also be approved by the student's home school/college.

An additional major in Education Studies only requires the completion of the 30 credit major. Students do not need to complete the School of Education's liberal studies and other degree requirements for the additional major. Applicants are not held to the 2.5 cumulative GPA required of students completing the Education Studies degree program.

Please note that the requirements of the additional major must be completed before or concurrently with the degree program and primary major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education’s Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student’s primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

#### Complete Liberal Studies Electives (p. 1554) to total 40 Credits.

### PROGRAM STRUCTURE

The Education Studies program has three primary components:

- *Liberal studies* and *general education* courses that expose students to a broad range of academic disciplines.
- *Major* coursework in education studies, including core course, depth, and breadth requirements. Students choose either a U.S. or Global concentration.
- *Elective* credits to pursue individual areas of interest. Education Studies majors are encouraged to consider completing complementary coursework in the College of Letters & Science, possibly including an additional major. The structure of the Education Studies degree program makes it possible to complete an additional major and still graduate in four years.

### MAJOR REQUIREMENTS

The Education Studies major requires 30 credits, to include core courses (9 credits), depth requirements (12 credits) and breadth requirements (9 credits). Students will select either a U.S. concentration or Global Concentration to fulfill the depth requirement of the major.

#### CORE COURSES, 9 CREDITS

Complete the following:

Code	Title	Credits
ED POL 240	Comparative Education	3
ED POL 300	School and Society	3
ED POL/ HISTORY 412	History of American Education	3

## DEPTH REQUIREMENTS, 12 CREDITS

Complete a minimum of four courses (12 credits) in either the United States or Global concentration to facilitate in-depth study of education policy and practice.

### U.S. Concentration

Code	Title	Credits
ED POL/ HISTORY 107	The History of the University in the West	3
ED POL 140	Introduction to Education	3
ED POL/ HISTORY 143	History of Race and Inequality in Urban America	3
ED POL 145	Introduction to Education Policy	3
ED POL 150	Education and Public Policy (U.S. topics only)	3
ED POL 180	Education and White Supremacy	3
ED POL 197	Listening to the Land	3
ED POL 200	Race, Ethnicity, and Inequality in American Education	3
ED POL 202	Careers in Education	3
ED POL 203	Internship in Education	1-3
ED POL 205	Language and Social Inequality	3
ED POL 209	Introduction to Quantitative Methods in Education Policy	3
ED POL 210	Youth, Education, and Society	3
ED POL 212	Education for Social Justice	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 305	Democracy and Education	3
ED POL 320	Climate Change, Sustainability, and Education	3
ED POL 345	Economics of Education	3
ED POL 350	Topics in Education Studies (U.S. topics only)	3
ED POL 423	Education for Global Change	3
ED POL 450	Rethinking "After-School" Education	3
ED POL 460	Immigration, Education, and Equity	3
ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	3
ED POL 500	Topics on Social Issues and Education (U.S. topics only)	3
ED POL 501	Qualitative Research Methods in Education	3
ED POL 505	Issues in Urban Education in the U.S.	3
ED POL 510	Urban School Policy	3
ED POL/CURRIC/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3

ED POL/CURRIC/ RELIG ST 516	Religion and Public Education	3
ED POL 518	Introduction to Debates in Higher Education Policy	3
ED POL/ PHILOS 545	Philosophical Conceptions of Teaching and Learning	3
ED POL/ PHILOS 550	Philosophy of Moral Education	3
ED POL/ GEN&WS 560	Gender and Education	3
ED POL/ AFROAMER 567	History of African American Education	3
ED POL/ ANTHRO 570	Anthropology and Education	3
ED POL 575	Education Policy and Practice	3
ED POL 595	Language Politics and Education	3
ED POL 600	Problems in Educational Policy (U.S. topics only)	3
ED POL/ HISTORY 612	History of Student Activism from the Popular Front to Black Lives Matter	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
ED POL/SOC 648	Sociology of Education	3
ED POL/ HISTORY 665	History of the Federal Role in American Education	3

### Global Concentration

Code	Title	Credits
ED POL/ HISTORY 107	The History of the University in the West	3
ED POL 112	Global Education through Film	3
ED POL 140	Introduction to Education	3
ED POL 150	Education and Public Policy (Global topics only)	3
ED POL 197	Listening to the Land	3
ED POL 203	Internship in Education	1-3
ED POL 205	Language and Social Inequality	3
ED POL 209	Introduction to Quantitative Methods in Education Policy	3
ED POL 212	Education for Social Justice	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 260	Introduction to International Education Development	3
ED POL 320	Climate Change, Sustainability, and Education	3
ED POL/ INTL ST 335	Globalization and Education	3
ED POL 350	Topics in Education Studies (Global topics only)	3
ED POL 420	Education in East Asia	3
ED POL 423	Education for Global Change	3
ED POL 435	Education in Emergencies	3
ED POL 460	Immigration, Education, and Equity	3

ED POL/ HISTORY 478	Comparative History of Childhood and Adolescence	3
ED POL 500	Topics on Social Issues and Education (Global topics only)	3
ED POL 501	Qualitative Research Methods in Education	3
ED POL/CURRIC/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3
ED POL/CURRIC/ RELIG ST 516	Religion and Public Education	3
ED POL/ GEN&WS 560	Gender and Education	3
ED POL 595	Language Politics and Education	3
ED POL 600	Problems in Educational Policy (Global topics only)	3
ED POL/ HISTORY 622	History of Radical and Experimental Education in the US and UK	3
ED POL 675	Introduction to Comparative and International Education	3
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	3

## BREADTH REQUIREMENTS, 9 CREDITS

Code	Title	Credits
<b>Required Breadth Course</b>		
Complete one of the following:		3
ED PSYCH 301	How People Learn	
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
<b>Additional Breadth Course Options</b>		
Complete additional coursework from the concentration NOT selected above, or from the courses listed below. ED PSYCH 301, 320, 321 and 331 may also count here, but not toward both breadth requirements.		
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	3
CURRIC/ CHICLA 321	Chicano/Latino Educational Justice	3
CURRIC 331	Taking Education Outside of School	3
CURRIC 366	Internationalizing Educational Knowledge	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ED PSYCH 326	Mind, Brain and Education	3
ED PSYCH 506	Contemporary Issues in Educational Psychology	3
ED PSYCH 541	Applied Behavior Analysis in Classrooms	3
ELPA 640	Legal Rights and Responsibilities for Teachers	1-3

INTER-LS 300	Topics in Teaching and Learning in the Letters, Arts, and Sciences (Understanding and Improving Instruction topic only; other topics require approval)	3
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## ELECTIVE CREDITS

Complete additional credits to complete the minimum of 120 required for the degree. Education Studies majors are encouraged to consider completing complementary coursework in the College of Letters & Science, possibly including an additional major. The structure of the Education Studies degree program makes it possible to complete an additional major and still graduate in four years.

## GPA AND OTHER GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.5 cumulative major grade point average.
- 2.5 cumulative grade point average in all upper-level major coursework ("upper-level" defined as numbered 300 and above).
- Major Residency: Students must complete at least 15 credits of upper-level major coursework in residence on the UW–Madison campus.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total credits: A minimum of 120 credits are required for graduation.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW–Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.



DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

Education Studies major course in concentration area (100 or 200 level)	3 Education Studies major course in concentration area (100 or 200 level)	3
Liberal Studies course work	9-12 Ethnic Studies	3
	Quantitative Reasoning A	3
	Liberal Studies course work	3-6
		<b>15</b>

<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ED POL 300		3 ED POL 240	3
Liberal Studies course work	12	Quantitative Reasoning B	3
		Liberal Studies or General Elective course work	9
		<b>15</b>	<b>15</b>

<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ED POL/HISTORY 412		3 Education Studies Breadth course	3
Communication B	3	Liberal Studies or General Elective course work	12
Complete one of:	3		
ED PSYCH 301			
ED PSYCH 320			
ED PSYCH 321			
ED PSYCH 331			
Liberal Studies or General Elective course work	6		
		<b>15</b>	<b>15</b>

<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Education Studies major course in concentration area (upper level)		3 Education Studies major course in concentration area	3
Education Studies Breadth course	3	Liberal Studies or General Elective course work	12
Liberal Studies or General Elective course work	9		
		<b>15</b>	<b>15</b>

**Total Credits 120**

## LEARNING OUTCOMES

1. Formulate research-based arguments on topics in education policy using academic literature, including both primary and secondary sources.
2. Demonstrate an understanding of the social, cultural, and/or historical contexts of education policy.
3. Examine education policy from multiple theoretical perspectives (e.g., ethical/philosophical, economic/political, etc.).
4. Learn to use different historical and/or qualitative social-science methods to answer major questions in education policy research, both contemporary and enduring.
5. Analyze education policy issues from diverse perspectives related to race, class, and/or gender, and other forms of social difference.

## FOUR-YEAR PLAN

### Education Studies: Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3

## ADVISING AND CAREERS

### EDUCATION STUDIES ADVISING

Students are advised by staff from the School of Education Student Services office (Room 139 Education Building) at SOAR and during the

regular academic year, see below. Admitted students are also assigned a departmental advisor.

## SCHOOL OF EDUCATION ADVISING

### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Education Studies majors include:** policy analysis, educational technology, youth and community programming, evaluation and research, training and other out-of-classroom educator roles both domestically and abroad. Our graduates also work in higher education, at think tanks, in government agencies as well as many other fields.

Students develop important skills that employers look for including:

- Diverse forms of communication (writing, presentation skills)
- Collaboration
- Critical thinking/analytical skills
- Turning information into action - advocacy/influence
- Diversity, equity, and inclusion
- Curriculum development and pedagogy

Applied experiences, including paid internships, career treks, and professional networking events, are available to UW Education Studies students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

This is just placeholder text.

## EDUCATION STUDIES AND THE WISCONSIN EXPERIENCE

Education Studies (ES) coursework is enhanced by supplemental activities—in and beyond the classroom—that extend what students are learning in course texts and discussions.

**Guest Speakers** - Many Educational Policy Studies (EPS) courses include guest speakers such as prominent educational scholars from universities across the globe, local educational leaders from community-based organizations and school districts, and educational policymakers.

The Department of Educational Policy Studies also hosts three speaker series each year that highlight cutting-edge research, ES alumni, career panels, an annual conference that addresses new developments in education (<https://eps.education.wisc.edu/about/conferences/>), and examples of how educational research can be used to inform policy and practice.

**Additional Majors and Certificates** - Many Education Studies students pursue a second major and/or certificates that complement the skills and knowledge they're gaining via their ES coursework and experiences.

**Volunteer and Leadership Experiences** - It is common for Education Studies students to be involved in volunteer and leadership experiences on campus and/or within the broader community. Education Studies students have the opportunity to take Community-based Learning (CBL) courses in EPS that enable them to integrate what

they're learning in the classroom with what they're learning through their volunteerism in local educational spaces, such as schools, the United Way (<https://www.unitedwaydanecounty.org/>), Centro Hispano (<https://www.micentro.org/>), Goodman Center (<https://www.goodmancenter.org/>), and other organizations.

**Career Development and Internships** - Our department encourages career development beyond our classrooms by offering courses such as ED POL 202: Careers in Education that helps prepare ES majors to pursue careers post-graduation and ED POL 203: Internship In Education which allows students to earn credit for education-affiliated internships.

**Leadership and Mentoring** - ES majors also have the opportunity to develop leadership skills through programs like the ES Ambassadors Program, in which students advise EPS faculty and staff and help recruit new students via their course presentations and participation in departmental events. Incoming and transferring Education Studies majors are invited to partake in our Education Studies Buddy program where they will be paired with a Junior or Senior Education Studies major for guidance and mentorship.

**Awards** - The ES program also has a number of awards (<https://eps.education.wisc.edu/about/student-awards/>) that recognize excellence in undergraduate research, writing, and community engagement: the Outstanding Research in Education Studies Award, the Outstanding Paper in Educational Studies Award, and the Eric Flanagan Community-Engaged Scholarship Award.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## EDUCATIONAL POLICY STUDIES, CERTIFICATE

The Educational Policy Studies Certificate was designed specifically for undergraduate students from across the campus. The certificate features multidisciplinary courses in the history, sociology, anthropology, economics, and philosophy of education, comparative and international education, and educational equity. Courses in policy analysis emphasize the socio-economic context and implications of policy decisions on equity, justice, and well-being. The completion of this certificate highlights a student's interest in the multiple dimensions of educational studies.

Students interested in pursuing this certificate are encouraged to consult with advising staff in the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email, [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

The EPS certificate is also available to individuals who have already completed a bachelor's degree; see the Nondegree/Visiting Student Guide (<https://guide.wisc.edu/nondegree/>).

## HOW TO GET IN

### DECLARATION PROCESS

All current UW-Madison undergraduates are eligible to complete the Certificate in Educational Policy Studies. Students must complete at least one Educational Policy Studies (ED POL) ([http://guide.wisc.edu/courses/ed\\_pol/](http://guide.wisc.edu/courses/ed_pol/)) course with a grade of B or better prior to declaring the certificate program. Students intending to complete the Educational Policy Studies Certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

Students pursuing the Education Studies major, the Certificate in International Development and Education, the Certificate in Global Cultures, Languages, and Education, and/or the Certificate in Social Justice and Education, are not eligible to complete the Educational Policy Studies certificate.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Certificate in Educational Policy Studies requires the following course distribution for a minimum of 12 credits. At least 6 credits must be completed in residence. Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

- Complete a minimum of four Educational Policy Studies courses ([https://guide.wisc.edu/courses/ed\\_pol/](https://guide.wisc.edu/courses/ed_pol/)) (12 credits).
- Students must take at least one of the following courses:

Code	Title	Credits
ED POL 240	Comparative Education	3
ED POL 300	School and Society	3
ED POL/ HISTORY 412	History of American Education	3

- At least two courses must be numbered 300 or above.

### UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. Demonstrate an understanding of the social, cultural, and/or historical contexts of education policy.
2. Examine education policy from multiple theoretical perspectives (e.g., ethical/philosophical, economic/political, etc.).
3. Analyze education policy issues from diverse perspectives related to race, class, and/or gender, and other forms of social difference.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Policy Studies can be found on the department's website. (<http://eps.education.wisc.edu/>)

## GLOBAL CULTURES, LANGUAGES, AND EDUCATION, CERTIFICATE

The Certificate in Global Cultures, Languages, and Education (GCLE) educates students about global cultural, sociolinguistic, literacy and language policy and planning perspectives.

The courses in the certificate explore key questions about the relationships among cultural diversity, social inequality, and language. They provide students with skills to work globally, within and beyond schools, in the field of culture, communication, and education.

## HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Certificate in Global Cultures, Languages, and Education. To declare the certificate, students should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

Students pursuing the Education Studies major or the Certificate in Educational Policy Studies are not eligible to complete the Certificate in Global Cultures, Languages, and Education.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Certificate in Global Cultures, Languages, and Education requires the following course distribution for a minimum of 12 credits. At least 6 credits must be completed in residence.

Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

### LANGUAGE, CULTURE AND SCHOOLING

Select two of the following courses (6 credits):

Code	Title	Credits
ED POL 205	Language and Social Inequality	3
ED POL 240	Comparative Education	3
ED POL/ ANTHRO 570	Anthropology and Education	3
ED POL 595	Language Politics and Education	3
CURRIC 312	ESL/Bilingual Issues	3

### GLOBAL EDUCATION

Select one of the following Global Education courses (3 credits):

Code	Title	Credits
ED POL 112	Global Education through Film	3
ED POL 197	Listening to the Land	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 260	Introduction to International Education Development	3
ED POL/ INTL ST 335	Globalization and Education	3
ED POL 460	Immigration, Education, and Equity	3
ED POL 675	Introduction to Comparative and International Education	3
CURRIC 292	Globalizing Education	3
CURRIC 366	Internationalizing Educational Knowledge	3

### GLOBAL STUDIES

Select one of the following courses (3 credits):

Code	Title	Credits
AFRICAN 212	Introduction to African Popular Culture	3
AFRICAN/ FRENCH 216	Modern and Contemporary Francophone Topics	3
AFRICAN/ AFROAMER 220	HipHop, Youth Culture, and Politics in Senegal	3
AFRICAN 230	Introduction to Yoruba Life and Culture	3
AFRICAN 231	Introduction to Arabic Literary Culture	3
AFRICAN 232	Introduction to Swahili Cultures	3
AFRICAN 300	African Literature in Translation	3
AFRICAN/ INTL ST 302	Arabic Literature and Cinema	3
AFRICAN 303	African Literature and Visual Culture	3
AFRICAN 304	Soccer in Africa	3
AFRICAN 323	Third Semester Arabic	4
AFRICAN 324	Fourth Semester Arabic	4
AFRICAN 329	Fifth Semester Arabic	3
AFRICAN 330	Sixth Semester Arabic	3
AFRICAN 333	Third Semester Swahili	4
AFRICAN 334	Fourth Semester Swahili	4
AFRICAN 337	Third Semester-A Language of Southern Africa	4
AFRICAN 338	Fourth Semester-A Language of Southern Africa	4
AFRICAN 341	Third Semester Summer Arabic	4
AFRICAN 342	Fourth Semester Summer Arabic	4
AFRICAN 343	Fifth Semester Summer Arabic	4
AFRICAN 344	Sixth Semester Summer Arabic	4
AFRICAN 373	Third Semester Yoruba	4
AFRICAN 374	Fourth Semester Yoruba	4

AFRICAN 393	Third Semester-A Language of West Africa	4	ANTHRO/ AMER IND/ FOLKLORE 431	American Indian Folklore	3
AFRICAN 394	Fourth Semester-A Language of West Africa	4	ANTHRO/ AMER IND/ FOLKLORE/ GEN&WS 437	American Indian Women	3
AFRICAN 405	Topics in African Cultural Studies	3	ANTHRO/ GEN&WS 443	Anthropology by Women	3
AFRICAN 406	Topics in African Literature	3	ANTHRO 448	Anthropology of Law	3
AFRICAN 409	Topics in US and Global Black Music Studies	3	ANTHRO 455	Study Abroad: Topics in Cultural Anthropology	1-6
AFRICAN 412	Contemporary African Fiction	3-4	ANTHRO 456	Symbolic Anthropology	3-4
AFRICAN/ AFROAMER 413	Contemporary African and Caribbean Drama	3-4	ANTHRO 460	The Anthropology of Dance: Movement and Music in Performance	3
AFRICAN/ RELIG ST 414	Islam in Africa and the Diaspora	3	ANTHRO 477	Anthropology, Environment, and Development	3
AFRICAN 435	Fifth Semester Swahili	3	ANTHRO/ ED POL 570	Anthropology and Education	3
AFRICAN 436	Sixth Semester Swahili	3	ANTHRO 606	Ethnicity, Nations, and Nationalism	3-4
AFRICAN/ FRENCH 440	African/Francophone Film	3	ANTHRO 690	Problems in Anthropology	3-4
AFRICAN/ PORTUG 451	Lusophone African Literature	3	ART HIST 305	History of Islamic Art and Architecture	3
ANTHRO 104	Cultural Anthropology and Human Diversity	3	ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ANTHRO/ FOLKLORE/ INTL ST/LINGUIS 211	Global Language Issues	3	ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ANTHRO 237	Cut 'n' Mix: Music, Race, and Culture in the Caribbean	3	ART HIST 354	Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present	3-4
ANTHRO/ AFROAMER/ C&E SOC/GEORG/ HISTORY/LACIS/ POLI SCI/SOC/ SPANISH 260	Latin America: An Introduction	3-4	ART HIST/ RELIG ST 373	Great Cities of Islam	3
ANTHRO/AFRICAN/ AFROAMER/GEOG/ HISTORY/POLI SCI/ SOC 277	Africa: An Introductory Survey	4	ART HIST/ ASIAN 379	Cities of Asia	3
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	3	ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ANTHRO 307	Urban Anthropology	3	ART HIST/ ASIAN 428	Visual Cultures of India	3
ANTHRO/ AMER IND 314	Indians of North America	3	ART HIST 440	Art and Power in the Arab World	3
ANTHRO 330	Topics in Ethnology	3-4	ASIALANG 201	Third Semester Chinese	4
ANTHRO 340	Music, Race, And Culture in Brazil	3	ASIALANG 202	Fourth Semester Chinese	4
ANTHRO/ RELIG ST 343	Anthropology of Religion	3-4	ASIALANG 203	Third Semester Japanese	4
ANTHRO 345	Family, Kin and Community in Anthropological Perspective	3	ASIALANG 204	Fourth Semester Japanese	4
ANTHRO 348	Economic Anthropology	3-4	ASIALANG 205	Third Semester Korean	4
ANTHRO 350	Political Anthropology	3-4	ASIALANG 206	Fourth Semester Korean	4
ANTHRO 357	Introduction to the Anthropology of Japan	3-4	ASIALANG 221	Third Semester Asian Language	4
ANTHRO 415	The Anthropological Study of Children & Youth	3	ASIALANG 222	Fourth Semester Asian Language	4
ANTHRO/ LINGUIS 430	Language and Culture	3-4	ASIALANG 223	Third Semester Filipino	4
			ASIALANG 224	Fourth Semester Filipino	4
			ASIALANG 225	Third Semester Hmong	4
			ASIALANG 226	Fourth Semester Hmong	4
			ASIALANG 227	Third Semester Indonesian	4
			ASIALANG 228	Fourth Semester Indonesian	4

ASIALANG 229	Third Semester Thai	4	ASIAN 403	Southeast Asian Literature	3
ASIALANG 230	Fourth Semester Thai	4	ASIAN/ RELIG ST 405	Gods and Goddesses of South Asia	3
ASIALANG 231	Third Semester Vietnamese	4	ASIAN/ RELIG ST 430	Indian Traditions in the Modern Age	3
ASIALANG 232	Fourth Semester Vietnamese	4	ASIAN 432	Introduction to Chinese Linguistics	3
ASIALANG 233	Third Semester Hindi	4	ASIAN 433	Topics in East Asian Visual Cultures	3
ASIALANG 234	Fourth Semester Hindi	4	ASIAN 434	Introduction to Japanese Linguistics	3
ASIALANG 235	Third Semester Modern Tibetan	4	ASIAN/ RELIG ST 460	The History of Yoga	3
ASIALANG 236	Fourth Semester Modern Tibetan	4	ASIAN/ RELIG ST 466	Buddhist Thought	3
ASIALANG 237	Third Semester Persian	4	ASIAN/ RELIG ST 473	Meditation in Indian Buddhism and Hinduism	3
ASIALANG 238	Fourth Semester Persian	4	FOLKLORE 100	Introduction to Folklore	3
ASIALANG 239	Third Semester Urdu	4	FOLKLORE/ AFROAMER/ AMER IND/ ASIAN AM/ CHICLA 102	Introduction to Comparative US Ethnic and American Indian Studies	3
ASIALANG 240	Fourth Semester Urdu	4	FOLKLORE/ MUSIC 103	Introduction to Music Cultures of the World	3
ASIALANG 241	Third Semester Sanskrit	3-4	FOLKLORE/ RELIG ST 104	Sacred Places and Journeys	3
ASIALANG 242	Fourth Semester Sanskrit	3-4	FOLKLORE/ GNS 200	Folklore of Central, Eastern and Northern Europe	3
ASIALANG 243	Third Semester Burmese	4	FOLKLORE/ AFRICAN 210	The African Storyteller	3
ASIALANG 244	Fourth Semester Burmese	4	FOLKLORE/ ANTHRO/INTL ST/ LINGUIS 211	Global Language Issues	3
ASIALANG 245	Third Semester Khmer	4	FOLKLORE 215	Elementary Topics in Folklore	1-3
ASIALANG 246	Fourth Semester Khmer	4	FOLKLORE 220	The Folk Tale	3
ASIALANG 311	First Semester Classical Chinese	3	FOLKLORE/ AFRICAN 270	The Hero and Trickster in African Oral Traditions	3
ASIALANG 312	Second Semester Classical Chinese	3	FOLKLORE 315	Intermediate Topics in Folklore	1-3
ASIALANG 313	Classical Japanese	3	FOLKLORE 317	The Irish Tradition	3
ASIAN/ RELIG ST 218	Health and Healing in South Asia	3-4	FOLKLORE/DANCE/ THEATRE 321	Javanese Performance	2
ASIAN/ RELIG ST 236	Asia Enchanted: Ghosts, Gods, and Monsters	3	FOLKLORE/ LITTRANS 327	The Vampire in Literature and Film	3
ASIAN 253	Japanese Popular Culture	3	FOLKLORE/ MEDIEVAL/ RELIG ST/ SCAND ST 342	Nordic Mythology	3
ASIAN/HISTORY/ POLI SCI 255	Introduction to East Asian Civilizations	3-4	FOLKLORE/ LITTRANS/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller	3
ASIAN 268	Tibetan Cultures and Traditions	3	FOLKLORE/ LITTRANS/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4
ASIAN/ RELIG ST 274	Religion in South Asia	3	FOLKLORE/ LITTRANS 347	In Translation: Kalevala and Finnish Folk-Lore	3-4
ASIAN 300	Topics in Asian Studies	3	FOLKLORE/ RELIG ST 352	Shamanism	3
ASIAN 301	Social Studies Topics in East Asian Studies	1-3			
ASIAN/ RELIG ST 306	Hinduism	3			
ASIAN/ RELIG ST 307	A Survey of Tibetan Buddhism	3			
ASIAN 311	Modern Indian Literatures	3			
ASIAN 351	Survey of Classical Chinese Literature	3			
ASIAN 352	Survey of Modern Chinese Literature	3			
ASIAN 353	Lovers, Warriors and Monks: Survey of Japanese Literature	3			
ASIAN 354	Early Modern Japanese Literature	3			
ASIAN 355	Modern Japanese Literature	3			
ASIAN 357	Japanese Ghost Stories	3			
ASIAN 358	Language in Japanese Society	3			
ASIAN 361	Love and Politics: The Tale of Genji	3			
ASIAN 367	Haiku	3			
ASIAN 371	Topics in Chinese Literature	2-3			
ASIAN 376	Manga	3			
ASIAN 378	Anime	3			

FOLKLORE/ RELIG ST 359	Myth	3	FRENCH 325	Visual Culture in French/ Francophone Studies	3
FOLKLORE/ MUSIC 402	Musical Cultures of the World	3	FRENCH 347	Medieval and Early Modern Culture	3
FOLKLORE 415	Advanced Topics in Folklore	1-3	FRENCH 348	Modernity Studies	3
FOLKLORE/DANCE/ THEATRE 421	Javanese Performance Repertory	2	FRENCH 350	Applied French Language Studies	1-3
FOLKLORE/ GEN&WS 428	Gender and Expressive Culture	3	GERMAN 203	Third Semester German	4
FOLKLORE/ AMER IND/ ANTHRO 431	American Indian Folklore	3	GERMAN 204	Fourth Semester German	4
FOLKLORE/ AMER IND/ ANTHRO/ GEN&WS 437	American Indian Women	3	GERMAN 213	Third Semester Dutch	4
FOLKLORE 439	Foodways	3	GERMAN 214	Fourth Semester Dutch	4
FOLKLORE/ SCAND ST 443	Sami Culture, Yesterday and Today	4	GERMAN 235	Dutch Conversation and Composition	3
FOLKLORE/ SLAVIC 444	Slavic and East European Folklore	3	GERMAN 245	Topics in Dutch Life and Culture	3
FOLKLORE/ MEDIEVAL/ SCAND ST 446	Celtic-Scandinavian Cultural Interrelations	3	GERMAN 249	Intermediate German - Speaking and Listening	3
FOLKLORE 451	The Supernatural in the Modern World	3	GERMAN 258	Intermediate German-Reading	3
FOLKLORE 460	Folk Epics	3	GERMAN 262	Intermediate German-Writing	3
FOLKLORE/ GEN&WS 467	Women and Politics in Popular Culture and Folklore	3	GERMAN 264	Culture in 20th Century Berlin	3
FOLKLORE/ GEN&WS 468	Feminism, Folklore and Comparative Literature	3	GERMAN 266	Topics in German and/or Yiddish Culture	3
FOLKLORE 510	Folklore Theory	3	GERMAN 267	Yiddish Song and the Jewish Experience	3-4
FOLKLORE/ MUSIC 515	Proseminar in Ethnomusicology	3	GERMAN/JEWISH/ LITTRANS 269	Yiddish Literature and Culture in Europe	3
FOLKLORE/ MUSIC 516	Ethnographic Methods for Music and Sound	3	GERMAN 271	The German Immigration Experience	3
FOLKLORE 518	The Scottish Tradition	3	GERMAN 272	Nazi Culture	3
FOLKLORE 530	Topics in Folklore	1-3	GERMAN 275	Kafka and the Kafkaesque	3
FRENCH 203	Third Semester French	4	GERMAN/ LITTRANS 276	Special Topics in German and World Literature/s	3
FRENCH 204	Fourth Semester French	4	GERMAN 278	Topics in German Culture	3
FRENCH 228	Intermediate Language and Culture	3-4	GERMAN/JEWISH/ LITTRANS 279	Yiddish Literature and Culture in America	3
FRENCH 271	Literature, Comics, and Film in French	3-4	GERMAN 285	Intermediate Intensive (Honors) German: Language, Culture, Texts	6
FRENCH 311	Advanced Composition and Speaking	3	GERMAN 305	Literatur des 20. und 21. Jahrhunderts	3-4
FRENCH 312	Advanced Writing Workshop	3	GERMAN 325	Topics in Dutch Literature	3
FRENCH/ INTL BUS 313	Professional Communication and Culture in the Francophone World	3	GERMAN 335	Dutch Conversation and Composition	3
FRENCH/ INTL BUS 314	Contemporary Issues in Government, Organizations, and Enterprise	3	GERMAN 337	Advanced Composition & Conversation	3-4
FRENCH 321	Medieval and Early Modern French Literature	3	GERMAN 351	Introduction to German Linguistics	3-4
FRENCH 322	Modern French and Francophone Literature	3	GERMAN 352	Topics in German Linguistics	3-4
			GERMAN 362	Topics in German Literature	3-4
			GERMAN 372	Topics in German Culture	3-4
			GERMAN 385	Honors Seminar in German Literature	3
			GERMAN 411	Kultur des 20. und 21. Jahrhunderts	3-4
			GERMAN 445	Topics in Dutch Culture	3-4
			GERMAN/ JEWISH 510	German-Jewish Culture Since the 18th Century	3
			GERMAN 560	Topics in German Studies	3
			GERMAN 612	German Literary Movements Since 1750	3
			GERMAN 625	Letterkunde der Lage Landen	3-4

GERMAN 632	A Theme in German Literature	3	INTL ST 310	International Learning Community Seminar	1-3
GERMAN 644	Theory and Practice of German Drama	3	INTL ST/GEOG 311	The Global Game: Soccer, Politics, and Identity	3
GERMAN 645	Cultuurkunde der Lage Landen	3-4	INTL ST/GEOG 315	Universal Basic Income: The Politics Behind a Global Movement	3
GERMAN 650	History of the German Language	3	INTL ST 320	Contemporary Issues in International Studies	1-4
GERMAN/ MEDIEVAL 651	Introduction to Middle High German	3	INTL ST 322	Washington DC Semester in International Affairs Internship Seminar	4
GERMAN/ COM ARTS 655	German Film	3	INTL ST/ POLI SCI 325	Social Movements and Revolutions in Latin America	3-4
GERMAN 676	Advanced Seminar in German Studies	3	INTL ST/ POLI SCI 327	Indian Politics in Comparative Perspective	3
GERMAN 677	Seminar in German Culture Studies	3	INTL ST/ HISTORY 330	Global History of Humanitarianism	3-4
GERMAN 683	Senior Honors Seminar in German Literature	3	INTL ST/ HISTORY 332	East Asia & The U.S. Since 1899	3-4
GNS/ FOLKLORE 200	Folklore of Central, Eastern and Northern Europe	3	INTL ST/ ED POL 335	Globalization and Education	3
GNS/ENVIR ST 210	Cultures of Sustainability: Central, Eastern, and Northern Europe	3	INTL ST/ HISTORY 366	From Fascism to Today: Social Movements and Politics in Europe	3-4
GNS/HISTORY 265	An Introduction to Central Asia: From the Silk Route to Afghanistan	3	INTL ST/A A E 373	Globalization, Poverty and Development	3
GNS 270	Introductory Topics in GNS	3	INTL ST/A A E 374	The Growth and Development of Nations in the Global Economy	3
GNS 324	Literatures of Central Asia	3	INTL ST 401	Topics in Global Security	3-4
GNS 370	Topics in GNS (Intermediate)	3	INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
GNS 375	Philosophy, Theory, Criticism	3	INTL ST 403	Topics in Culture in the Age of Globalization	3-4
GNS 431	Third Semester Kazakh	4	INTL ST/ POLI SCI 423	Social Mobilization in Latin America	3
GNS 432	Fourth Semester Kazakh	4	INTL ST/ POLI SCI 431	Contentious Politics	3-4
GNS 439	Third Semester Turkish	4	INTL ST/ POLI SCI 434	The Politics of Human Rights	3-4
GNS 440	Fourth Semester Turkish	4	INTL ST/ POLI SCI 436	Political Inequality: Measures, Causes, Effects and Remedies	3
GNS 451	Third Semester Central Eurasian Language	4	INTL ST/ POLI SCI 439	The Comparative Study of Genocide	3-4
GNS 452	Fourth Semester Central Eurasian Language	4	INTL ST 501	Study Abroad Topics in Global Security	1-6
GNS 460	Readings in Turkish: Contemporary Turkey through Literature and Media	4	INTL ST 502	Study Abroad Topics in Politics and Policy in the Global Economy	1-6
GNS 471	Advanced Topics in East European and Central Asian Languages and Cultures	1-4	INTL ST 503	Study Abroad Topics in Culture in the Age of Globalization	1-6
GNS 531	Fifth Semester Kazakh	3-4	INTL ST 504	Study Abroad Topics in Global Environment	1-6
GNS 532	Sixth Semester Kazakh	3-4	INTL ST 520	Study Abroad Topics in International Studies	1-6
GNS 539	Fifth Semester Turkish and Azeri	3-4	INTL ST 523	International Internship	1-3
GNS 540	Sixth Semester Turkish and Azeri	3-4	INTL ST/ GEN&WS 535	Women's Global Health and Human Rights	3
GNS 551	Fifth Semester Central Eurasian Language	4	INTL ST 601	Topics in Global Security	1-4
GNS 552	Sixth Semester Central Eurasian Language	4			
GNS 624	Proseminar in Central Asian History	3			
INTL ST 101	Introduction to International Studies	3-4			
INTL ST/ANTHRO/ FOLKLORE/ LINGUIS 211	Global Language Issues	3			
INTL ST/HISTORY/ LACIS 242	Modern Latin America	3-4			
INTL ST 266	Introduction to the Middle East	3			
INTL ST/ AFRICAN 302	Arabic Literature and Cinema	3			



INTL ST 602	Topics in Politics and Policy in the Global Economy	1-4	LITTRANS 229	Representation of the Jew in Eastern European Cultures	3
INTL ST 603	Topics in Culture in the Age of Globalization	1-4	LITTRANS 231	Manga	3
INTL ST 620	Topics in International Studies	1-4	LITTRANS 232	Anime	3
INTL ST 622	Washington DC Sem in International Affairs Seminar	4	LITTRANS 233	Russian Life and Culture Through Literature and Art (to 1917)	3-4
ITALIAN 202	Fast-track Intermediate Italian for Speakers of Romance Languages	4	LITTRANS 234	Soviet Life and Culture Through Literature and Art (from 1917)	3-4
ITALIAN 203	Third Semester Italian	4	LITTRANS/ MEDIEVAL 235	The World of Sagas	3
ITALIAN 204	Fourth Semester Italian	4	LITTRANS/ SLAVIC 238	Literature and Revolution	3
ITALIAN 230	Modern Italian Culture	3	LITTRANS 240	Soviet Literature in Translation	3-4
ITALIAN 311	Advanced Italian Language	3	LITTRANS 241	Literatures and Cultures of Eastern Europe	3
ITALIAN 312	Writing Workshop	3	LITTRANS 245	Topics in Spanish American Literature in Translation	3
ITALIAN 321	Studies in Italian Literature and Culture I	3	LITTRANS 247	Topics in Slavic Literatures in Translation	3
ITALIAN 322	Studies in Italian Literature and Culture II	3	LITTRANS 249	Literature in Translation: Nineteenth-Century French Masterpieces	3
ITALIAN 340	Structures of Italian	3	LITTRANS 252	Spanish Literary Masterpieces in Translation	3
ITALIAN/ILS 350	Rome: Lust for Glory	3-4	LITTRANS/ MEDIEVAL/ RELIG ST 253	Of Demons and Angels. Dante's Divine Comedy	3
ITALIAN/ILS/ LITTRANS/ POLI SCI 365	Machiavelli and His World	3	LITTRANS 254	In Translation: Lit of Modern Italy-Existentialism, Fascism, Resistance	3
ITALIAN/MEDIEVAL/ RELIG ST 440	Poverty, Ecology and the Arts: St. Francis of Assisi	3	LITTRANS/ MEDIEVAL 255	Black Death and Medieval Life Through Boccaccio's Decameron	3
LINGUIS 101	Human Language	3	LITTRANS 260	Italy and the Invention of America: from Columbus to World War II	3
LITTRANS 201	Survey of 19th and 20th Century Russian Literature in Translation I	3	LITTRANS 261	Survey of Chinese Literature in Translation	3
LITTRANS 202	Survey of 19th and 20th Century Russian Literature in Translation II	3	LITTRANS 262	Survey of Chinese Literature in Translation	3
LITTRANS 203	Survey of 19th and 20th Century Russian Literature in Translation I	4	LITTRANS 263	Survey of Japanese Literature in Translation	3
LITTRANS 204	Survey of 19th and 20th Century Russian Literature in Translation II	4	LITTRANS 264	Survey of Japanese Literature in Translation	3
LITTRANS/ GEN&WS 205	Women in Russian Literature in Translation	3-4	LITTRANS/ SLAVIC 266	Elementary Special Topics in Russian Literature & Culture	1-3
LITTRANS 207	Slavic Science Fiction through Literature and Film	3	LITTRANS 268	French Women Writers from the Middle Ages to the Nineteenth Century	3
LITTRANS 208	The Writings of Vaclav Havel: Critique of Modern Society	3	LITTRANS/ GERMAN/ JEWISH 269	Yiddish Literature and Culture in Europe	3
LITTRANS 209	Masterpieces of French Literature and Culture	3-4	LITTRANS/ GEN&WS 270	German Women Writers in Translation	3
LITTRANS 213	Love and Sex in Italian Comedy	3-4	LITTRANS 271	In Translation: Masterpieces of Scandinavian Literature, Middle Ages-1900	3-4
LITTRANS 215	Polish Literature in Translation: 14th to the Mid-19th Century	3	LITTRANS 274	In Translation: Masterpieces of Scandinavian Literature-the 20th Century	3-4
LITTRANS 218	Polish Literature in Translation: Late 19th and 20th Centuries	3			
LITTRANS 220	Chekhov: The Drama of Modern Life	3			
LITTRANS 221	Russia's Greatest Enigma: Nikolai Gogol	3			
LITTRANS 222	Dostoevsky in Translation	3-4			
LITTRANS/ ENGL 223	Vladimir Nabokov: Russian and American Writings	3			
LITTRANS 224	Tolstoy in Translation	3-4			
LITTRANS 226	Introduction to Luso-Afro-Brazilian Literature	3			

LITTRANS 275	In Translation: The Tales of Hans Christian Andersen	3-4	LITTRANS/ SCAND ST 428	Memory and Literature from Proust to Knausgard	3
LITTRANS/ GERMAN 276	Special Topics in German and World Literature/s	3	LITTRANS/ SCAND ST 435	The Sagas of Icelanders in English Translation	3
LITTRANS 277	Topics in Twentieth-Century German Literature (in Translation)	3	LITTRANS/ GEN&WS/ SCAND ST 438	Sexual Politics in Scandinavia	3
LITTRANS/ GERMAN/ JEWISH 279	Yiddish Literature and Culture in America	3	LITTRANS/ SLAVIC 467	Advanced Special Topics in Slavic Languages and Literatures	3
LITTRANS 302	What is Life? Biological Life in Literature and Culture	3-4	LITTRANS 471	Polish Literature (in Translation), Middle Ages to 1863	3
LITTRANS 303		3-4	LITTRANS 473	Polish Literature (in Translation) since 1863	3
LITTRANS 324	Topics in Scandinavian Literature	3-4	PORTUG 201	Third Semester Portuguese	4
LITTRANS 326	Topics in Dutch Literature in Translation	3	PORTUG 202	Fourth Semester Portuguese	4
LITTRANS/ FOLKLORE 327	The Vampire in Literature and Film	3	PORTUG 221	Introduction to Luso-Brazilian Literatures	4
LITTRANS 331	In Translation: Scandinavian Topics in Depth	1-2	PORTUG 225	Third Year Conversation and Composition	3
LITTRANS 334	In Translation: The Art of Isak Dinesen/Karen Blixen	3-4	PORTUG 226	Third Year Conversation and Composition	3
LITTRANS/ THEATRE 335	In Translation: The Drama of Henrik Ibsen	3-4	PORTUG 301	Intensive Portuguese	4
LITTRANS/ THEATRE 336	In Translation: The Drama of August Strindberg	3-4	PORTUG 311	Fourth Year Composition and Conversation	3
LITTRANS 337	In Translation: 19th Century Scandinavian Fiction	3-4	PORTUG 312	Fourth Year Composition and Conversation	3
LITTRANS 340	Contemporary Scandinavian Literature in Translation	3-4	PORTUG 330	History of the Portuguese Language	3
LITTRANS/ FOLKLORE/ MEDIEVAL/ SCAND ST 345	The Nordic Storyteller	3	PORTUG 361	Portuguese Civilization	3
LITTRANS/ FOLKLORE/ MEDIEVAL 346	In Translation: The Icelandic Sagas	3-4	PORTUG 362	Brazilian Civilization	3
LITTRANS/ FOLKLORE 347	In Translation: Kalevala and Finnish Folk-Lore	3-4	PORTUG 411	Survey of Portuguese Literature before 1825	3
LITTRANS 350	Scandinavian Decadence in its European Context	3-4	PORTUG 412	Survey of Brazilian Literature before 1890	3
LITTRANS/ SLAVIC 357	Intermediate Special Topics in Slavic Languages and Literatures	3	PORTUG/ GEN&WS 450	Brazilian Women Writers	3
LITTRANS 360	French and Italian Renaissance Literature Online	3-4	PORTUG/ AFRICAN 451	Lusophone African Literature	3
LITTRANS/ SLAVIC 361	Living at the End of Times: Contemporary Polish Literature and Culture	3	PORTUG/ GEN&WS 460	Carmen Miranda	3
LITTRANS/ ILS/ITALIAN/ POLI SCI 365	Machiavelli and His World	3	PORTUG 467	Survey of Portuguese Literature since 1825	3
LITTRANS/ SLAVIC 366	Intermediate Special Topics in Russian Literature & Culture	3	PORTUG 468	Survey of Brazilian Literature since 1890	3
LITTRANS 410	In Translation: Special Topics in Italian Literature	3	PORTUG 640	Topics in Luso-Brazilian Literature	3
LITTRANS/ THEATRE 423	In Translation: Slavic Drama in Context	3	PORTUG 642	Topics in Luso-Brazilian Culture	3
			SCAND ST 201	Second Year Norwegian	4
			SCAND ST 202	Second Year Norwegian	4
			SCAND ST 211	Second Year Swedish	4
			SCAND ST 212	Second Year Swedish	4
			SCAND ST 221	Second Year Danish	4
			SCAND ST 222	Second Year Danish	4
			SCAND ST 250	Introduction to Scandinavia	3
			SCAND ST 251	Readings in Norwegian Literature	3-4
			SCAND ST 261	Readings in Swedish Literature	3-4
			SCAND ST 271	Readings in Danish Literature	3-4

SCAND ST 276	Culture & Community in Scandinavia	3	SCAND ST/ FOLKLORE/ MEDIEVAL 446	Celtic-Scandinavian Cultural Interrelations	3
SCAND ST/ FOLKLORE/ MEDIEVAL/ RELIG ST 342	Nordic Mythology	3	SCAND ST 450	Scandinavian Decadence in its European Context	3-4
SCAND ST/ FOLKLORE/ LITTRANS/ MEDIEVAL 345	The Nordic Storyteller	3	SCAND ST 475	The Writings of Hans Christian Andersen for Scandinavian Majors	4
SCAND ST 348	The Second World War in Nordic Culture	3	SCAND ST 476	Scandinavian Life and Civilization II	4
SCAND ST 355	Autobiography	3	SCAND ST 510	Topics in Scandinavian Linguistics	3
SCAND ST 373	Masterpieces of Scandinavian Literature: From the Middle Ages to 1900	3-4	SCAND ST 511	Paleography and Philology - Old Norse	3
SCAND ST 374	Masterpieces of Scandinavian Literature: the Twentieth Century	3-4	SCAND ST 520	Special Topics	3
SCAND ST 401	Contemporary Scandinavian Languages	3	SCAND ST/ HISTORY 577	Contemporary Scandinavia: Politics and History	3-4
SCAND ST 410	Introduction to Scandinavian Linguistics	3	SCAND ST 634	Survey of Scandinavian Literature: 1500-1800	3
SCAND ST 411	Areas in Scandinavian Literature	1	SCAND ST 635	Survey of Scandinavian Literature: 1800-1890	3
SCAND ST 415	History of the Scandinavian Languages II: Standard Languages	3	SLAVIC 117	Intensive Second Year Russian	4
SCAND ST 419	Scandinavian Children's Literature	4	SLAVIC 118	Intensive Second Year Russian	4
SCAND ST 421	Advanced Topics in Nordic Studies	1-3	SLAVIC 203	Third Semester Russian	4
SCAND ST 422	The Drama of Henrik Ibsen	4	SLAVIC 204	Fourth Semester Russian	4
SCAND ST 423	The Drama of August Strindberg	4	SLAVIC 207	Third Semester Polish	4
SCAND ST 424	Nineteenth-Century Scandinavian Fiction	3-4	SLAVIC 208	Fourth Semester Polish	4
SCAND ST 426	Kierkegaard and Scandinavian Literature	3	SLAVIC 217	Third Semester Czech	4
SCAND ST 427	Contemporary Scandinavian Literature	4	SLAVIC 218	Fourth Semester Czech	4
SCAND ST/ LITTRANS 428	Memory and Literature from Proust to Knausgard	3	SLAVIC 231	History and Ethics on Film: Polish Cinema	3
SCAND ST/ MEDIEVAL 430	The Vikings	4	SLAVIC/ LITTRANS 238	Literature and Revolution	3
SCAND ST/ HISTORY 431	History of Scandinavia to 1815	3	SLAVIC 239	Performance and Power	3
SCAND ST/ HISTORY 432	History of Scandinavia Since 1815	3	SLAVIC 242	Literatures and Cultures of Eastern Europe	3
SCAND ST 434	The Art of Isak Dinesen/Karen Blixen	4	SLAVIC 245	Topics in Slavic Literatures	3
SCAND ST/ LITTRANS 435	The Sagas of Icelanders in English Translation	3	SLAVIC 251	Third Semester Serbo-Croatian	3
SCAND ST 436	Topics in Scandinavian Literature	3-4	SLAVIC 252	Fourth Semester Serbo-Croatian	3
SCAND ST/ GEN&WS/ LITTRANS 438	Sexual Politics in Scandinavia	3	SLAVIC/GEOG/ HISTORY/ POLI SCI 253	Russia: An Interdisciplinary Survey	4
SCAND ST 439	Nordic Filmmakers	3	SLAVIC/GEOG/ HISTORY/ POLI SCI 254	Eastern Europe: An Interdisciplinary Survey	4
SCAND ST/ FOLKLORE 443	Sami Culture, Yesterday and Today	4	SLAVIC/ LITTRANS 266	Elementary Special Topics in Russian Literature & Culture	1-3
SCAND ST/ MEDIEVAL 444	Kalevala and Finnish Folk-Lore	4	SLAVIC 275	Third Year Russian I	3
			SLAVIC 276	Third Year Russian II	3
			SLAVIC 277	Third Year Polish I	3
			SLAVIC 278	Third Year Polish II	3
			SLAVIC 279	Intensive Third Year Russian	8
			SLAVIC 285	Slavic Culture in Context: An Honors Course	3
			SLAVIC 304	Fourth Semester Intensive Polish	4
			SLAVIC 305	Fifth Semester Intensive Polish	3
			SLAVIC 306	Sixth Semester Intensive Polish	3

SLAVIC 308	Polish Culture and Area Studies on Study Abroad	1-4	SPANISH/ LACIS 285	Race and Culture in the Americas	3
SLAVIC 309	Russian Area Studies on Study Abroad	1-4	SPANISH 311	Advanced Language Practice	3
SLAVIC 310	Topics in Russian: Study Abroad	1-6	SPANISH 319	Topics in Spanish Language Practice	1-3
SLAVIC 315	Russian Language and Culture I	3	SPANISH 321	The Structure of Modern Spanish	3
SLAVIC 316	Russian Language and Culture II	3	SPANISH 322	Survey of Early Hispanic Literature	3
SLAVIC 321	Fourth Year Russian I	3	SPANISH 323	Advanced Language Practice with Emphasis on Expository Writing	3
SLAVIC 322	Fourth Year Russian II	3	SPANISH 324	Survey of Modern Spanish Literature	3
SLAVIC 331	Fourth Year Polish I	3	SPANISH 325	Advanced Conversation	3
SLAVIC 332	Fourth Year Polish II	3	SPANISH 326	Survey of Spanish American Literature	3
SLAVIC/ LITTRANS 357	Intermediate Special Topics in Slavic Languages and Literatures	3	SPANISH 327	Introduction to Spanish Linguistics	3
SLAVIC/ LITTRANS 361	Living at the End of Times: Contemporary Polish Literature and Culture	3	SPANISH 361	Spanish Civilization	3
SLAVIC/ LITTRANS 366	Intermediate Special Topics in Russian Literature & Culture	3	SPANISH 363	Spanish American Civilization	3
SLAVIC 433	History of Russian Culture	3	SPANISH/ CHICLA 364	Survey of Latino and Latina Popular Culture	3
SLAVIC 434	Contemporary Russian Culture	3	SPANISH/ MEDIÉVAL 414	Literatura de la Edad Media Castellana (ss. XII-XV)	3
SLAVIC 440	Soviet Literature	3-4	SPANISH 417	Literatura del Siglo de Oro	3-4
SLAVIC/ FOLKLORE 444	Slavic and East European Folklore	3	SPANISH 435	Cervantes	3
SLAVIC 451	Third Semester Intensive Czech	3	SPANISH 451	Literature of the Eighteenth and Nineteenth Centuries	3
SLAVIC 452	Fourth Semester Intensive Czech	3	SPANISH 453	Literature of the Twentieth Century	3
SLAVIC 465	Advanced Readings in Russian Literature & Culture	3	SPANISH 460	Literatura Hispanoamericana	3
SLAVIC/ LITTRANS 467	Advanced Special Topics in Slavic Languages and Literatures	3	SPANISH 468	Topics in Hispanic Culture	3
SLAVIC 470	History of Polish Literature until 1863	3	SPANISH 470	Undergraduate Seminars in Hispanic Literature/Culture/Linguistics	3
SLAVIC 472	History of Polish Literature after 1863	3	SPANISH 472	Hispanic Screen Studies	3
SLAVIC/ THEATRE 532	History of Russian Theatre	3	SPANISH 477	Latin American Rock Cultures	3
SLAVIC 555	Advanced Russian Listening & Speaking	3	SPANISH/ CHICLA 478	Border and Race Studies in Latin America	3
SLAVIC 560	Capstone Seminar in Russian Literature and Culture	3	SPANISH 479	Latin American Literature and Human Rights	3
SPANISH 203	Third Semester Spanish	4	SPANISH 480	Topics in Latin American Performance/Visual Studies	3
SPANISH 204	Fourth Semester Spanish	4	SPANISH 490	Race, Religion and Ethnicity in the Age of Empire	3
SPANISH 223	Introduction to Hispanic Cultures	3			
SPANISH 224	Introduction to Hispanic Literatures	3			
SPANISH 225	Lying, Swearing, and Breaking the Rules: An Introduction to the Linguistic Study of Spanish	3			
SPANISH 226	Intermediate Language Practice with Emphasis on Writing and Grammar	3			
SPANISH/ AFROAMER/ ANTHRO/C&E SOC/ GEOG/HISTORY/ LACIS/POLI SCI/ SOC 260	Latin America: An Introduction	3-4			

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate an understanding of the social, cultural, and historical contexts of global language policy and linguistic and cultural practices.
2. Reflect on one's own position and the positions of others in global political, social, and institutional structures and the possibilities for growth and change for oneself and others.
3. Analyze information about culture and communication from diverse perspectives.

4. Formulate arguments on global topics in language, culture, and education using academic literature and theoretical frameworks, identifying and integrating diverse sources of information.
5. Collaborate and communicate ideas, reflections, and research effectively with people from a range of perspectives, cultures, and backgrounds.
6. Use practice to inform theory and research and theory and research to reflect on and modify practice.

## INTERNATIONAL DEVELOPMENT AND EDUCATION, CERTIFICATE

The Certificate in International Development and Education develops global education leaders who understand the complex issues that shape international education and are prepared to engage in transforming policy and practice. Students in this certificate explore a range of topics, including: poverty, inequity, sustainability, colonial relations, human rights, health disparities, and governance. Students will engage in self-reflection and analysis about who they are in relation to international development efforts and learn about new international education innovations that center collaboration and partnership.

Graduates of the certificate program will develop an understanding of the fields of international educational development and change. They can choose elective courses to deepen their research, evaluation, management, curriculum planning, and/or pedagogical skills to engage in reflexive, culturally-sensitive and sustainable approaches to improving education development policy, practice, and outcomes.

### HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Certificate in International Development and Education. Students intending to complete this certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

Students pursuing the Education Studies major or the Certificate in Educational Policy Studies are not eligible to complete the Certificate in International Development and Education.

### REQUIREMENTS

#### COURSE REQUIREMENTS

The Certificate in International Development and Education requires the following course distribution for a minimum of 12 credits. At least 6 credits must be completed in residence.

Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

#### CORE COURSE

This course (3 credits) provides a foundational overview of the field of International Development Education and should be taken as early as possible.

Code	Title	Credits
ED POL 260	Introduction to International Education Development	3

#### ED POL GLOBAL EDUCATION AND DEVELOPMENT ELECTIVES

Select two courses from the following options (6 credits). These topical courses allow students to explore a key theme (e.g., human rights, climate change, poverty and inequality, health) in International Development Education in greater depth, or to deepen their understanding of the field of International and Comparative Education.

Code	Title	Credits
ED POL 112	Global Education through Film	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 320	Climate Change, Sustainability, and Education	3
ED POL/ INTL ST 335	Globalization and Education	3
ED POL 423	Education for Global Change	3
ED POL/ ANTHRO 570	Anthropology and Education	3
ED POL 675	Introduction to Comparative and International Education	3
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	3

#### CAMPUS-WIDE INTERNATIONAL DEVELOPMENT AND EDUCATION ELECTIVE

Select one course from the following options (3 credits). These topical courses allow students to explore how key disciplines and fields of study across the campus engage with International Development:

Code	Title	Credits
A A E/INTL ST 373	Globalization, Poverty and Development	3
A A E/INTL ST 374	The Growth and Development of Nations in the Global Economy	3
A A E/ECON/ INTL BUS 462	Latin American Economic Development	3
A A E/ECON 473	Economic Growth and Development in Southeast Asia	3
A A E/ECON 474	Economic Problems of Developing Areas	3
A A E/ECON 477	Agricultural and Economic Development in Africa	3
ANTHRO 477	Anthropology, Environment, and Development	3
C&E SOC/ENVIR ST/ SOC 540	Sociology of International Development, Environment, and Sustainability	3
C&E SOC/SOC/ URB R PL 617	Community Development	3
C&E SOC/SOC 630	Sociology of Developing Societies/ Third World	3

GEOG 307	International Migration, Health, and Human Rights	3
GEOG/INTL ST 315	Universal Basic Income: The Politics Behind a Global Movement	3
GEOG/ENVIR ST 337	Nature, Power and Society	3
GEOG 538	The Humid Tropics: Ecology, Subsistence, and Development	4
GEOG/ENVIR ST 557	Development and Environment in Southeast Asia	3
GEN&WS/HISTORY 315	Gender, Race and Colonialism	3
GEN&WS 424	Women's International Human Rights	3
GEN&WS/URB R PL 644	International Development and Gender	3
HISTORY/INTL ST 330	Global History of Humanitarianism	3-4
HISTORY 434	American Foreign Relations, 1901 to the Present	3-4
HISTORY/CHICLA 435	Colony, Nation, and Minority: The Puerto Ricans' World	3
HISTORY 607	The American Impact Abroad: The Historical Dimension	3
INTL ST 101	Introduction to International Studies	3-4
INTL ST/GEOG 315	Universal Basic Income: The Politics Behind a Global Movement	3
INTL ST/HISTORY 330	Global History of Humanitarianism	3-4
INTL ST/A A E 373	Globalization, Poverty and Development	3
INTL ST 401	Topics in Global Security	3-4
INTL ST 402	Topics in Politics and Policy in the Global Economy	3-4
INTL ST 403	Topics in Culture in the Age of Globalization	3-4
INTL ST/POLI SCI 431	Contentious Politics	3-4

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate an understanding of the global contexts of colonialism, US post-war imperialism, bi-/multi-lateralism, and capitalism that shape the international development and international education fields, as well as key debates and trends in the field.
2. Reflect on experiences, resources, and national positions and the positions of others engaged in the field of international development education; recognize the consequences of this positionality on one's own understanding of the concepts of human development and

wellbeing and of the desire to improve and develop other places and people; and critically examine possibilities for growth and change.

3. Analyze information about international development and education (as theory and as practice) from diverse disciplinary, methodological, and epistemological perspectives.
4. Evaluate multiple theories of change and effectively apply appropriate theories of change to key international development problems.
5. Formulate arguments on topics in international development and education by evaluating and then drawing from academic and practitioner literatures, and identifying and integrating diverse sources of information.
6. Communicate ideas, reflections, and research on international development and education effectively to people from a range of perspectives, cultures, backgrounds, and roles in the field of international development (e.g., policymakers, program officers, community members, Peace Corps volunteers, Fulbright, etc.).

## SOCIAL JUSTICE AND EDUCATION, CERTIFICATE

The Certificate in Social Justice and Education examines equity in educational policy and practice. It provides students with a foundational understanding of the social inequities that shape education and broader society. Students also learn how educators, students, administrators, parents, and community members have effectively responded to these inequities.

This certificate prepares UW-Madison students to critically analyze the role education policies and practices play in broader social inequalities and social justice efforts. Students connect course concepts and ideas to both their own lives as well as to historical and contemporary social and educational issues in education (in the U.S. and/or globally).

## HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the Certificate in Social Justice and Education. Students intending to complete this certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form.

Students pursuing the Education Studies major or the Certificate in Educational Policy Studies are not eligible to complete the Certificate in Social Justice and Education.

## REQUIREMENTS

### COURSE REQUIREMENTS

The Certificate in Social Justice and Education requires the following course distribution for a minimum of 12 credits. At least 6 credits must be completed in residence. Completion of the certificate requires a minimum GPA of 2.0 in certificate coursework.

All students are required to take ED POL 212 Education for Social Justice, a core course that provides students with foundational knowledge about social justice in education that they can build from and connect to their other coursework and assignments as part of the Certificate.

Students are also required to take three other courses that have a central focus on social justice in education, with two of the three courses in Educational Policy Studies. These courses meet most or all of the certificate's Learning Outcomes, and enable students to tailor the certificate to their specific topical and disciplinary areas of interest (e.g. historical perspectives on social justice and education, social justice and education in the U.S., comparative/global studies of social justice and education).

## REQUIRED COURSE

Code	Title	Credits
ED POL 212	Education for Social Justice	3

## ELECTIVE COURSES

Select from any of the following courses, 2 of which must be taken in Educational Policy Studies.

Code	Title	Credits
ED POL 197	Listening to the Land	3
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	3
CURRIC/ CHICLA 321	Chicano/Latino Educational Justice	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
CURRIC/ RP & SE 406	Race, Intersectionality, and Equity in Education	3
ED POL/ HISTORY 143	History of Race and Inequality in Urban America	3
ED POL 145	Introduction to Education Policy	3
ED POL 180	Education and White Supremacy	3
ED POL 200	Race, Ethnicity, and Inequality in American Education	3
ED POL 205	Language and Social Inequality	3
ED POL 210	Youth, Education, and Society	3
ED POL 220	Human Rights and Education	3
ED POL 237	Wealth, Poverty and Inequality: Transnational Perspectives on Policy and Practice in Education	3
ED POL 240	Comparative Education	3
ED POL 300	School and Society	3
ED POL/ HISTORY 412	History of American Education	3
ED POL 423	Education for Global Change	3
ED POL 435	Education in Emergencies	3
ED POL 460	Immigration, Education, and Equity	3
ED POL 505	Issues in Urban Education in the U.S.	3
ED POL 510	Urban School Policy	3
ED POL/CURRIC/ HISTORY/ JEWISH 515	Holocaust: History, Memory and Education	3
ED POL/ GEN&WS 560	Gender and Education	3
ED POL/ AFROAMER 567	History of African American Education	3
ED POL/ ANTHRO 570	Anthropology and Education	3

ED POL 575	Education Policy and Practice	3
ED POL 595	Language Politics and Education	3
ED POL/ HISTORY 612	History of Student Activism from the Popular Front to Black Lives Matter	3
RP & SE 100	Disability and Society	3
RP & SE 300	Individuals with Disabilities	3
RP & SE 466	Diversity in Special Education	3

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate an understanding of how education, and education policy and practice specifically, has been used as a tool for both social justice and the (re)production of inequality in the United States and/or globally.
2. Identify and describe the social inequities that shape education and broader society, as well as how various social actors (e.g. educators, students, administrators, parents, and community members) have responded to these inequities through their social justice efforts.
3. Draw from theory and research to analyze issues of social justice in education.
4. Demonstrate an ability to apply critical thinking skills to the study of inequities in education, by recognizing and questioning knowledge claims and their own assumptions and preconceived notions.

## EDUCATIONAL PSYCHOLOGY

Although the department does not offer an undergraduate major, students from across the campus may take undergraduate courses from this department, ranked #2 in the nation by U.S. News & World Report. Courses are offered in each of the main content areas: human development, learning sciences, and quantitative methods. The department also offers courses specific to teacher education programs.

The Education and Educational Services (p. 1720) certificate may be completed by undergraduate students from across the campus. This certificate provides a cohesive set of courses for students interested in the many aspects of education, but who choose not to major in education while completing their undergraduate degree. Students interested in child development, neuroscience and the process of learning, or education-related policies, for example, may wish to complement their current major with this substantive program in education.

## DEGREES/MAJORS/CERTIFICATES

- Education and Educational Services, Certificate (p. 1720)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Psychology can be found on the department's website (<http://www.education.wisc.edu/edpsych/>). (<https://edpsych.education.wisc.edu/>)

## EDUCATION AND EDUCATIONAL SERVICES, CERTIFICATE

Education is a topic of widespread interest to UW–Madison students and is one of the hotly contested subjects in today's politics and society. The Education and Educational Services (EES) Certificate Program provides a cohesive set of courses for undergraduate students interested in the many aspects of education, but who choose not to major in education during their undergraduate degree.

Students interested in child development, neuroscience and the process of learning, or education-related policies, for example, may wish to complement their current major with this substantive program in education. The certificate also provides grounding and learning experiences that will increase access to careers in education. Students completing the certificate may be considering future plans to:

- Enter a post-baccalaureate teacher education program.
- Pursue a graduate program focused on educational services, including programs such as counseling psychology, school psychology, and rehabilitation psychology.
- Complete advanced work in educational psychology or educational administration.
- Begin a career in teaching and learning settings and practices outside the K-12 education system.

This 15-credit certificate program offers a variety of course options that can be customized to each student's area of interest. It is also available to individuals who have already completed a bachelor's degree; see the Nondegree/Visiting Student Guide (<http://guide.wisc.edu/nondegree/>).

In addition to reading the information here, students may wish to consult the department's website (<https://edpsych.education.wisc.edu/academics/ees-certificate/>) or email the EES administrator ([ees@education.wisc.edu](mailto:ees@education.wisc.edu)).

## HOW TO GET IN

### DECLARATION PROCESS

Students intending to pursue the Education and Educational Services Certificate should visit the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page to complete the declaration form. The declaration for this certificate program can be submitted at any time during the calendar year.

Please note: Students completing a course of study designed to lead to teacher certification are not eligible to complete the EES certificate. This also includes School of Education degree students pursuing the education studies or communication sciences and disorders majors. Other students

completing a major within the School of Education are limited to 6 credits of overlap between their major and the certificate; that is, no more than 6 credits of coursework used to satisfy requirements for a major within the School of Education may also be counted toward completion of the EES certificate.

## REQUIREMENTS

Requirements of this 15-credit certificate program include both Foundation and Focus coursework. All coursework must be taken for a letter grade (not credit/no-credit or pass/fail) and students must earn at least a C grade in each course of the certificate. At least 12 credits of the certificate must be earned in residence at UW–Madison.

There is no formal prerequisite structure to the certificate, although students will generally be expected to take CURRIC 240 Critical Aspects of Teaching, Schooling, and Education first, followed by the two remaining Foundation courses and then the two Focus courses.

## FOUNDATION COURSES, 9 CREDITS

Code	Title	Credits
<b>Required Foundation Course</b>		<b>3</b>
CURRIC 240	Critical Aspects of Teaching, Schooling, and Education	
<b>Social Context of Education</b>		<b>3</b>
Select one of the following:		
ED POL 145	Introduction to Education Policy	
ED POL 300	School and Society	
ED POL/ INTL ST 335	Globalization and Education	
ED POL/ HISTORY 412	History of American Education	
ED POL 210	Youth, Education, and Society	
ELPA 640	Legal Rights and Responsibilities for Teachers	
<b>Individual Processes in Teaching and Learning</b>		<b>3</b>
Select one of the following:		
ED PSYCH 320	Human Development in Infancy and Childhood	
ED PSYCH 321	Human Development in Adolescence	
ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 301	How People Learn	
ED PSYCH 326	Mind, Brain and Education	
RP & SE 300	Individuals with Disabilities	

## FOCUS COURSE WORK, 6 CREDITS

Code	Title	Credits
Select from the following and any other Foundation courses: <sup>1</sup>		<b>6</b>
COUN PSY 110	Human Resources Development: Career Strategies	



COUN PSY 115	Human Resources Development: Educational Effectiveness
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change
COUN PSY 230	Race and the Developing Child
COUN PSY 300	Special Topics: Counseling and Counseling Psychology
COUN PSY 325	Seminar: Students Seeking Educational Equity and Diversity (SEED)
COUN PSY 650	Theory and Practice in Interviewing
COUN PSY 665	Career Development Throughout the Life Span
CURRIC 305	Integrating the Teaching of Reading with Other Language Arts
CURRIC 277	Videogames & Learning
CURRIC/ CHICLA 321	Chicano/Latino Educational Justice
CURRIC 366	Internationalizing Educational Knowledge
CURRIC 375	Proseminar
ELPA/ COUN PSY 350	Peer Leadership and Mentorship with Transitioning Students
ELPA 502	Workshop in Educational Leadership and Policy Analysis
ED POL/ HISTORY 107	The History of the University in the West
ED POL 140	Introduction to Education
ED POL 150	Education and Public Policy
ED POL 200	Race, Ethnicity, and Inequality in American Education
ED POL 220	Human Rights and Education
ED POL 450	Rethinking "After-School" Education
ED POL 500	Topics on Social Issues and Education
ED POL 505	Issues in Urban Education in the U.S.
ED POL 510	Urban School Policy
ED POL/CURRIC/ RELIG ST 516	Religion and Public Education
ED POL 518	Introduction to Debates in Higher Education Policy
ED POL/ AFROAMER 567	History of African American Education
ED POL/ ANTHRO 570	Anthropology and Education
ED POL 575	Education Policy and Practice
ED POL/ SOC 648	Sociology of Education
ED PSYCH 506	Contemporary Issues in Educational Psychology
ED PSYCH 540	Introduction to Professional School Psychology
ED PSYCH 541	Applied Behavior Analysis in Classrooms
ED PSYCH 542	The Biological Basis of Behavior

ED PSYCH 551	Quantitative Ethnography
ED PSYCH 563	Design of Educational Games and Simulations
ED PSYCH 570	Foundations of Educational Measurement
RP & SE 500	Rehabilitation-Counseling Psychology: Foundations

1

Students may also substitute up to 3 credits of independent study with faculty from the departments of Coun Psy, Curric, ELPA, Ed Pol, Ed Psych or RP&SE. Independent study work with faculty from other School of Education departments may be considered; contact an advisor in the School of Education Student Services office.

## UNDERGRADUATE/SPECIAL STUDENT CERTIFICATES

This certificate may be completed within the context of an undergraduate degree or as a Special student after an undergraduate degree has been awarded from any institution. The certificate may be completed in its entirety while enrolled as a Special student. Candidates are encouraged to contact the certificate coordinator to discuss course enrollment and the sequencing of certificate requirements.

## LEARNING OUTCOMES

1. Understand how learning environments and pedagogical practices for students are grounded in concepts and interpretive frameworks provided by disciplines that study human development and learning. Understand both typical and atypical development in relation to education.
2. Understand basic cognitive, social, emotional, and biological bases of teaching and learning.
3. Understand how issues of race, class, gender, cultural, sexual orientation, immigrant status, language background, and disability status interact with various educational contexts to affect learning and its outcomes.
4. Understand how local, state, national, and global social and political contexts differentially affect schooling and its outcomes for students both typical and atypical development in relation to education.
5. Understand the multiple contexts in which education occurs.
6. Understand historical, political, and cultural influences on education and educational institutions.
7. Understand supportive services available to learners in educational contexts and institutions.
8. Be familiar with some of the issues and controversies surrounding the selection of concepts taught, the assumptions associated with content choices, tools of inquiry, and ways of reasoning.
9. Be an informed consumer of educational research and policy prescriptions.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Educational Psychology can be found on the department's website (<http://www.education.wisc.edu/edpsych/>). (<https://edpsych.education.wisc.edu/>)

## KINESIOLOGY

The study of movement, physical activity, and exercise has the potential to dramatically impact health and quality of life. Department programs focus on the scientific study of movement behavior, anatomy and physiology, research in kinesiology and fundamentals of exercise, and application to health, physical education, and functional performance. The department's ultimate goal is to enhance human health, productivity, and quality of life.

The B.S. degree in Kinesiology (p. 1730) prepares students for graduate or professional study, and the B.S. degree in Physical Education (p. 1738) prepares teacher education students to teach physical education in elementary and secondary schools.

A collaborative B.S. degree program in Health Promotion and Health Equity (<http://guide.wisc.edu/undergraduate/education/kinesiology/health-promo-health-equity-bs/>) is broadly designed to provide students with the skills and perspectives to facilitate healthy practices at the individual and societal levels.

Two certificates in Athletic Healthcare (p. 1722) and Promoting Activity for Diverse Abilities (p. 1746) may be completed by students pursuing kinesiology and other majors on campus.

The department also offers health theory, strength and conditioning, and leadership courses to improve understanding, appreciation, and use of the body in movement and sports. Once the kinesiology students have enrolled, kinesiology classes are open to all university students.

## DEGREES/MAJORS/CERTIFICATES

- Athletic Healthcare, Certificate (p. 1722)
- Health Education, Minor (p. 1723)
- Health Promotion and Health Equity, B.S. (p. 1724)
- Kinesiology, B.S. (p. 1730)
- Physical Education, B.S. (p. 1738)
- Promoting Activity for Diverse Abilities, Certificate (p. 1746)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<https://kinesiology.education.wisc.edu/>)

## ATHLETIC HEALTHCARE, CERTIFICATE

The Certificate in Athletic Healthcare provides a structured undergraduate offering for students with an interest in healthcare for active populations. Students acquire specialized knowledge related to the fields of healthcare, sports medicine, and physically active populations.

The combination of required core courses and elective options makes this certificate appealing to students from a wide array of backgrounds and majors. Students can select elective courses that will be applicable to a variety of career interests; substitutions for the core courses are not allowed.

This program is intended to provide students with meaningful learning experiences and ultimately an advantage in pursuing advanced or professional degrees in a variety of health-related fields.

## HOW TO GET IN

### DECLARATION PROCESS

Students must complete KINES 127 Introduction to Athletic Healthcare to apply to the certificate program. Students intending to complete the Athletic Healthcare certificate will find the declaration form on the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page. The declaration for this certificate program can be submitted at any time during the calendar year.

Students completing a Bachelor of Science degree in Athletic Training may not complete the Certificate in Athletic Healthcare.

## REQUIREMENTS

Requirements of this minimum 14-credit certificate program include both required and elective coursework. All coursework must be taken for a letter grade. Certificate students must earn a minimum grade point average of 2.5 on required certificate coursework. At least 8 credits must be earned in residence at UW–Madison.

### CORE COURSES

Complete all of the following:

Code	Title	Credits
KINES 127	Introduction to Athletic Healthcare	2
KINES 227	Introduction to Clinical Anatomy of Human Movement	2
KINES 387	The Young Athlete: Considerations for Exercise, Medicine, and Activity	2
KINES 487	Athletic Healthcare: Contemporary Perspectives	3

### BREADTH ELECTIVE COURSES

Complete a minimum of 5 credits from the following:

Code	Title	Credits
C&E SOC/SOC 533	Public Health in Rural & Urban Communities	3
HDFS 262	Development of the Young Child (was 362 prior to fall, 2023)	3
HDFS 263	Development from Adolescence to Old Age (was 363 prior to fall, 2023)	3
KINES 140	Science and Practice of Resistance Training	2
KINES 150	Foundations of Health Behavior and Health Equity	3
KINES 555	Sports Science & Athlete Monitoring	3
NURSING/S&A PHM/SOC WORK 105	Health Care Systems: Interdisciplinary Approach	2
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3

RP & SE 125	Health and Rehabilitation Professions	3
RP & SE 310	Positive Psychology and Well Being	3
PSYCH 405	Abnormal Psychology	3-4

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Define Athletic Healthcare and identify components of the healthcare system commonly used in athletic healthcare.
2. Differentiate specific roles of healthcare professions that comprise a interdisciplinary healthcare team.
3. Identify the impact of public health policy on clinical practice in athletic healthcare.
4. Develop practical skills and knowledge that are commonly utilized in an athletic healthcare clinical setting.

## HEALTH EDUCATION, MINOR

Health education is a subject equally important, or even more important, than other subject areas. It is critical to students' education and development, and is a foundation for their success in all endeavors in school and life.

The Health Education minor at UW-Madison prepares individuals to teach health as a separate course or as an integral part of other subject areas. Students are also trained to assist school administrators and teaching staff in developing a broad school health program, engaging many aspects of the school and community at large.

The curriculum for the Health Education minor is varied. At its foundation lies health-related content. Building on that foundation, students are taught a skills-based approach to teaching health, which empowers youth in schools to make wise health-related decisions. Student teaching in a middle school or high school health classroom is the culmination of the Health Education minor.

We are committed to providing quality health instruction to our students, and ultimately to developing health-literate students in schools. To that end, the Health Education minor includes:

- Standards-based curriculum
- Skills-based approach to teaching health education
- Placements in urban/suburban/rural, inclusive, and multicultural settings
- Small class sizes and advising groups
- Instruction within the nationally ranked UW-Madison School of Education

Students in physical education teacher education or teachers already licensed to teach at an appropriate level in Wisconsin are eligible to complete the Health Education minor.

Graduates are eligible to apply for a Wisconsin teaching license in Health at the Kindergarten through Grade 12 level.

### HOW TO GET IN

Upon admission into their teacher education degree program in the School of Education, students should meet immediately with the Health minor coordinator to develop a course completion schedule.

Students should meet with the Pre-Declaration Physical Education Advisor to declare the Health Education minor; see Contact Information for details.

### REQUIREMENTS

Complete a minimum of 23 credits to include all coursework below. A minimum 2.75 GPA is required, based on all UW-Madison coursework included in the minor requirements.

Students may wish to consult with the Health minor coordinator or advising staff in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall, 608-262-1651.

Upon acceptance into a major program in the School of Education, students should meet immediately with the Health minor coordinator to work out a schedule for required courses.

## CORE REQUIREMENTS (23-24 CREDITS)

Code	Title	Credits
KINES 116	First Aid and Basic Life Support <sup>1</sup>	2
ANAT&PHY 235 or ANAT&PHY 335	Human Physiology and Health Physiology	4
KINES 501	Theory-Based Health Education and Health Promotion Programs	3
KINES 547	Skills for Health: Methods and Practicum of Teaching Health	3
SOC WORK 453	Substance Use Disorders	3
Take one of the following:		3-4
SOC/PSYCH 160	Human Sexuality: Social and Psychological Issues	
PSYCH/SOC 453	Human Sexuality	
ED POL/ CURRIC 677	Education, Health and Sexuality: Global Perspectives and Policies	
KINES 566	Promoting Health in the Community	3
KINES 568	Student Teaching in Health Education <sup>2</sup>	2
<b>Total Credits</b>		<b>23-24</b>

**1**

Students may exempt from KINES 116 First Aid and Basic Life Support by completing American Red Cross First Aid **AND** either American Red Cross Basic Life Support or American Red Cross CPR/AED for Professional Rescuers.

If a student wishes to request that a different course (or courses) be considered, contact the Department of Kinesiology undergraduate office PRIOR to enrolling.

Documentation of current certification must be presented to the Health Education program advisor. If the certification equivalent is used, the minor will require 24 credits.

**2**

Eligibility for student teaching requires the completion of all courses required for the minor with a minimum GPA of 2.75. Students must also meet the content knowledge requirements for Health Education. A meeting with the Health minor coordinator is required before submitting a student teaching application. Students should bring a current transcript to this meeting. Special arrangements can be made for teachers seeking add-on certification in Health Education.

## HEALTH PROMOTION AND HEALTH EQUITY, B.S.

The Health Promotion and Health Equity (HPHE) major was created through a collaborative effort across the departments of Counseling Psychology, Kinesiology, and Rehabilitation Psychology and Special Education in the School of Education. The Department of Kinesiology is the home of this major; its mission is to research, teach, and apply knowledge related to movement, exercise, and human occupation with the ultimate goal of enhancing human health, productivity, and quality of life.

The core courses (31 credits) form the main content of the major and include: conceptual and theoretical foundations of health; awareness of multiple determinants of physical and psychological health; program planning, administration, and evaluation; and working effectively with underserved populations (e.g., persons with disability; low-income groups; racial and ethnic minority populations).

The elective curriculum (9 credits) will allow students to tailor the major in the direction of their personal interests (Physical Activity and Public Health; Chronic Illness, Disability and Health; Health Equity, Mental Health and Well-Being; Social Determinants of Health; Health Sciences).

The program is broadly designed to provide students with the skills and perspectives to facilitate healthy practices at the individual and societal levels. Students will learn about the theoretical, programmatic and empirical foundations of health promotion and health equity interventions and be taught to demonstrate competence in evaluating strengths and weaknesses in health promotion programs.

The coursework will prepare students for emerging career opportunities as health educators within community health organizations, hospitals, mental health centers, clinics, schools and universities, businesses and non-profits, governmental health offices, and various other public health-related professions.

## HOW TO GET IN

### ADMISSION OVERVIEW

Students interested in Health Promotion and Health Equity may complete this major in two ways: (1) by entering the School of Education to complete a Bachelor of Science degree with a major in Health Promotion and Health Equity, or (2) adding the Health Promotion and Health Equity major as an additional major while completing another degree and major on campus. Students selecting the second option should review the Additional Major in Health Promotion and Health Equity (p. 1725) section below.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and off-campus transfers interested in completing the Bachelor of Science degree with the Health Promotion and Health Equity major are admitted directly to the School of Education and the major upon admission to UW-Madison. Current UW-Madison students wishing to transfer to the School of Education to complete an undergraduate degree with this major must meet with an advisor in the School of Education Student Services office (608-262-1651) or with the Health Promotion and Health Equity advisor ([hphe@education.wisc.edu](mailto:hphe@education.wisc.edu)), to transfer and declare the major.

#### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the university to enroll in a School of Education degree program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Prospective transfer students are advised to meet with an advisor in the School of Education Student Services office in person or by telephone in advance of their application; to schedule, call 608-262-1651.

#### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person or via telephone; to schedule, call 608-262-1651.

Applicants who already hold an undergraduate degree are admitted to the School of Education as a candidate for a second degree upon completion of the admission process. Second degree students are seeking a second degree that is unrelated to their first degree. More information is available here (p. 1545) under the Students with a Previous Degree heading.

### APPLICATION AND ADMISSION

New freshmen and off-campus transfers are admitted directly to the Bachelor of Science-Health Promotion and Health Equity degree program. Current UW-Madison students must consult with an advisor in the School of Education Student Services office

(608-262-1651) or with the Health Promotion and Health Equity advisor (hphe@education.wisc.edu), to transfer and declare the major.

Note: Requirements and selection criteria may be modified from one application/admission period to the next.

## CRITERIA FOR ADMISSION

Eligibility for admission consideration to the Bachelor of Science–Health Promotion and Health Equity degree:

- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Filing of all required paperwork and other application materials, including program application and transcripts.

### Last 60 Credits Rule

Two grade point averages may be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## ADDITIONAL MAJOR IN HEALTH PROMOTION AND HEALTH EQUITY

Undergraduate students from all schools and colleges on campus may declare Health Promotion and Health Equity as an additional major.

Students wishing to declare the additional major must meet with an advisor in the School of Education Student Services office (608-262-1651) or with the Health Promotion and Health Equity advisor (hphe@education.wisc.edu), to transfer and declare the major. The declaration must also be approved by the student's home school/college.

Students completing Health Promotion and Health Equity as an additional major do not need to complete the School of Education's liberal studies and other degree requirements unless their primary major is also in the School of Education.

Please note that the requirements of the additional major must be completed before or concurrently with the degree program and primary major.

## REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

### The School of Education's Liberal Studies

**Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

**Science**

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

**Cultural and Historical Studies**

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

**PROGRAM STRUCTURE**

The Bachelor of Science (B.S.) degree program in Health Promotion and Health Equity has three primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major requirements* provide an opportunity to study the interrelated areas of physical health, mental health, and disability.
- *Additional electives* to reach the minimum of 120 degree credits. These credits allow students to pursue additional health-related courses, enroll in course work required for admission to graduate-level programs or develop other areas of interest. Health Promotion and Health Equity majors may also use these elective credits to complete an additional major to augment their interest in health or to explore a completely different subject.

**MAJOR REQUIREMENTS**

Complete a minimum of 40 credits with a 2.5 gpa across all major course work. At least 15 credits of upper-level major course work (courses numbered 300 and above) must be taken in residence with a minimum 2.5 grade point average.

**REQUIRED HEALTH PROMOTION CORE, 31 CREDITS**

Code	Title	Credits
ANAT&PHY 235	Human Physiology and Health	4
KINES 150	Foundations of Health Behavior and Health Equity	3
KINES 370	Planning, Facilitating & Assessment in Movement and Health Professionals	3
KINES 566	Promoting Health in the Community	3
RP & SE 316	Health Promotion for Individuals with Disability and Chronic Illness	3
RP & SE 325	Self Management of Chronic Illness and Disability	3

RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	3
COUN PSY 237	Mental Health, Self-Awareness, and Social Justice: Working in Diverse Communities	3
COUN PSY 531	Prevention and Intervention in Mental Health Across the Lifespan	3
COUN PSY 655	Clinical Communication Skills	3

**MAJOR ELECTIVES, 9 CREDITS**

Select courses from one of the following areas of emphasis, or select courses across these areas.

Code	Title	Credits
<b>Physical Activity and Public Health</b>		
KINES 100	Exercise, Nutrition, and Health	2
KINES 123	Living well: Lifestyle Redesign and Health Promotion for College Students	2
KINES 501	Theory-Based Health Education and Health Promotion Programs	3
KINES 540	Diversity in Health and Physical Activity Settings	3
KINES 547	Skills for Health: Methods and Practicum of Teaching Health	3
<b>Chronic Illness, Disability, and Health</b>		
RP & SE 100	Disability and Society	3
RP & SE 121	Disability and Substance Abuse	3
RP & SE 125	Health and Rehabilitation Professions	3
RP & SE 310	Positive Psychology and Well Being	3
<b>Health Equity, Mental Health, and Well-Being</b>		
COUN PSY 225	Intersectionalities, Self Awareness, and Social Actions for Social Change	3
COUN PSY 230	Race and the Developing Child	3
COUN PSY/ CHICLA 331	Immigrant Health and Wellbeing	3
COUN PSY 332	Gender and Queer Issues in Psychology	3
COUN PSY/ CHICLA 525	Dimensions of Latin@ Mental Health Services	3
<b>Social Determinants of Health</b>		
MED HIST/HIST SCI/ POP HLTH 553	International Health and Global Society	3
NUTR SCI/A A E/ AGRONOMY 350	World Hunger and Malnutrition	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC 533	Public Health in Rural & Urban Communities	3
INTL ST/A A E 373	Globalization, Poverty and Development	3
CSCS 125	Community and Social Change	3
CSCS 460	Civil Society and Community Leadership	3

HDFS 469	Family and Community Influences on the Young Child	3
HDFS 474	Racial Ethnic Families in the U.S.	3
<b>Health Sciences</b>		
ANAT&PHY 337	Human Anatomy	3
GEN&WS 103	Gender, Women, Bodies, and Health	3
NUTR SCI 132	Nutrition Today	3
NUTR SCI 332	Human Nutritional Needs	3
POP HLTH 370	Introduction to Public Health: Local to Global Perspectives	3
PSYCH 202	Introduction to Psychology	3-4

## GPA AND OTHER GRADUATION REQUIREMENTS

These requirements are based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- Cumulative major grade point average: 2.5 cumulative grade point average in all major course work.
- Upper-level major course work: 2.5 cumulative grade point average in all upper-level (courses numbered 300 and above) major course work.
- Major Residency: Students must complete at least 15 upper level major credits while enrolled in residence on the UW–Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits: A minimum of 120 credits are required for graduation in the Health Promotion and Health Equity degree program.

### DEGREE AUDIT (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Recognize concepts and theories related to health promotion and health equity.
2. Relate the role of social factors in facilitating or hindering health.
3. Evaluate the strengths and weaknesses of health behavior and health equity interventions.
4. Identify links between physiological and psychological health.
5. Interpret and communicate the interaction between personal and environmental determinants of health and well-being.
6. Draw from personal and professional identities to develop socially just practices and to lead effectively within their communities of practice.

## FOUR-YEAR PLAN

### Health Promotion and Health Equity: Sample Four-Year Plan

This sample four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
Communication A, (take fall or spring semester), 3	3	Communication A, (take fall or spring semester), 3	3
HPHE Major Elective, 3	3	Quantitative Reasoning A	3
Liberal Studies course work	9-12	COUN PSY 237 (also meets ethnic studies)	3

		Liberal Studies course work	6-9
		<b>15</b>	<b>15</b>
<b>Sophomore</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
KINES 150		3 RP & SE 316	3
RP & SE 325		3 Quantitative Reasoning B	3
Liberal Studies course work		9 Liberal Studies or General Elective course work	9
		<b>15</b>	<b>15</b>
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
KINES 370		3 ANAT&PHY 235	4
RP & SE 505		3 HPHE Major Elective	3
Communication B		3 Liberal Studies or General Elective course work	8
Liberal Studies or General Elective course work		6	
		<b>15</b>	<b>15</b>
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
COUN PSY 531		3 KINES 566	3
COUN PSY 655		3 HPHE Major Elective	3
Liberal Studies or General Elective course work		9 Liberal Studies or General Elective course work	9
		<b>15</b>	<b>15</b>

**Total Credits 120**

Note: The HP & HE major requires 9 credits of elective course work. A number of the course options, e.g., RP & SE 100, RP & SE 121 RP & SE 125; COUN PSY 225, COUN PSY 230; KINES 100, KINES 123; PSYCH 202; NUTR SCI 132, can be taken during the freshmen and sophomore years.

## ADVISING AND CAREERS

### HEALTH PROMOTION AND HEALTH EQUITY ADVISING

Students are collaboratively advised by advising staff in the School of Education Student Services office and in the department. Students not yet declared in Health Promotion and Health Equity meet with advising staff in the Student Services office, see below, or the departmental advisor. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW.

## SCHOOL OF EDUCATION ADVISING

### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.



For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for HPHE majors include:** community health and wellness education, health policy analysis, public health advocacy, and direct individual client care supporting physical, mental, and social wellness. Our graduates work in community health organizations, hospitals/clinics, mental health centers, schools and universities, businesses and non-profits, governmental health offices, and various other public health-related professions.

Students develop important skills that employers look for including:

- Communication
- Critical thinking/analytical skills
- Collaboration and teamwork
- Client-centeredness/empathy
- Influencing in support of diversity, equity, and inclusion at individual, community, and systemic levels
- Planning and organizational skills

Applied experiences, including paid internships, career treks, and professional networking events, are available to UW Health Promotion and Health Equity students.

## PEOPLE

Information about faculty, staff, and other contributors to the Health Promotion and Health Equity major can be found on the departmental websites of Counseling Psychology (<https://counselingpsych.education.wisc.edu/>), Kinesiology (<https://kinesiology.education.wisc.edu/>), and Rehabilitation Psychology and Special Education. (<https://rpse.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

## HEALTH PROMOTION AND HEALTH EQUITY (HPHE) AND THE WISCONSIN EXPERIENCE

### Community Based Activities

HPHE students have an opportunity to become involved in the Fit Families (<https://education.wisc.edu/news/capital-times-spotlights-uw-madison-luis-columna-and-fit-families-program/>) program, developed by Dr. Luis Columna. Fit Families is a physical activity program that brings together children with disabilities, their parents, college students and in-service professionals in related fields such as adapted physical education, special education, orientation & mobility, psychology, physical education, and exercise science.

Students also participate in programs run through the Wisconsin Area Health Education Centers (AHEC), such as the Community Health Internship Program (<https://ahec.wisc.edu/chip/>).

### HPHE majors have crafted their Wisconsin Experience in some of the following ways:

- A student majoring in HPHE is the event coordinator of a new student organization, the HPHE Learning Community. This individual is also part of a research team that codes conversations about the health and well-being of Latino children and is a teaching assistant for the Waisman Early Childhood Program.
- An HPHE student developed a passionate interest in social justice-based public health after interning at Milwaukee's Gerald Ignace Indian Health Center and the Philippine Cultural and Civic Center Foundation. They are currently working with the Wisconsin Division of Public Health as an enteric disease research analyst and beginning research on Asian American health under Dr. Dorothy Edwards and the NIH's All of Us (<https://allofus.wisc.edu/?elqTrackId=38719B11F064F2937F31EA8EC23D7CFB&elq=c21876d204e4>). This semester they will continue participating on the Asian Pacific Islander Desi American (APIIDA) Heritage Month Planning Committee, the Kinesiology department's Equity Climate, and Diversity Committee, and has joined the HPHE Learning Community's Spring, 2023 cohort.
- Another one of our students is combining HPHE with the Gender and Women's Studies Certificate. This student has spent time as a research and communications intern of the Social Media Adolescent Health Research Team (SMAHRT) and presented at two national conferences. They also assumed the role of a fellow in the Undergraduate Research Scholars Program of the College of Letters & Science, facilitating conversations among undergraduate students in a weekly seminar. Previously, they worked as an intern lead for the Technology and Mental Wellness Program Youth Advisory Board, and internationally as a volunteer at the Galway Autism Partnership (GAP) in Galway, Ireland.
- An HPHE student with certificates in environmental studies, French, and global health is part of a team working on developing an evidence-based physical activity program for adolescents. Last summer was spent teaching in a low-income neighborhood.
- While also completing the Certificate in Disability Rights and Services, this student serves as the co-president of the HPHE Learning Community and helped to found the organization. They work as a social media and marketing assistant for two

UW-affiliated organizations and as a peer advisor with the Cross College Advising Service.

- A student majoring in HPHE and working toward certificates in environmental studies and global health is the treasurer of the HPHE Learning Community student organization and has been elected to serve in a financial position for the Slow Food Club on campus.

## CERTIFICATION/LICENSURE

The National Commission for Health Education Credentialing (NCHEC) offers a Certified Health Education Specialist (CHES) exam. The HPHE program coordinators are currently working with NCHEC to insure that students completing the HPHE major requirements are qualified to take the CHES exam. Students in the HPHE program will be informed when this assurance has been received from NCHEC.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## KINESIOLOGY, B.S.

The Kinesiology department's mission is to research, teach, and apply knowledge related to movement, exercise, and human occupation with the ultimate goal of enhancing human health, productivity, and quality of life.

Students in this major take coursework grounded in the basic sciences (e.g., physiology, anatomy, biology) and in kinesiology. Kinesiology core courses examine how the body responds to physical activity, the role of physiology and psychological factors in exercise, mechanics driving movement, how movement is controlled, learned, and developed over the lifespan, and the role of physical activity in the health of the U.S. population.

The curriculum includes coursework, laboratory research opportunities, and hands-on learning experiences. In addition, at least 11 credits of electives in exercise and movement science are required, giving students some flexibility to tailor the program to their specific interests. Examples of elective topics include strength and conditioning, leadership, health theory, and advanced courses in exercise physiology, exercise psychology, and biomechanics.

Kinesiology is a pre-professional program. This means that our students are well prepared for subsequent graduate or professional training in different health-related disciplines. The degree also prepares students for graduate programs in kinesiology and athletic training. Kinesiology graduates also pursue entry-level careers in a wide variety of professions, including those in the area of fitness.

### **Graduating seniors have reported starting the following jobs:**

club coach, programming administrator, medical scribe, AmeriCorps, rehabilitation aide, personal trainer, research assistant/specialist, physical therapy aide, nursing home caregiver, nanny, group exercise instructor, certified nursing assistant, medical device sales, strength and conditioning internship, United Cerebral Palsy inclusion facilitator, financial counselor,

EKG tech, behavioral technician, project manager, ranch worker, wellbeing intern, glacier guide.

**Graduating seniors have reported acceptance into the following graduate programs:** Doctor of Physical Therapy, Master of Public Health, Doctor of Medicine, Chiropractic School, Clinical Exercise Physiology, Biomedical Engineering, Master in Physician Assistant Studies, Doctor of Occupational Therapy, Master of Science in Exercise Science, Master of Science in Applied Sport and Exercise Psychology, Dentistry.

## HOW TO GET IN

## KINESIOLOGY DECLARATION OVERVIEW

Incoming freshmen typically enter UW-Madison as Pre-Kinesiology students (PKN), spend the first two years completing liberal studies, general education, and Kinesiology prerequisite requirements, and declare the Kinesiology major during their sophomore year for the final two years on campus.

On-campus students starting at UW-Madison in other majors can move to Pre-Kinesiology by completing a Pre-Professional Declaration (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A GPA of 2.75, based on all UW-Madison coursework or the last 60 credits (p. 1545), is required to transfer into Pre-Kinesiology. It is not necessary to be a Pre-Kinesiology student before declaring Kinesiology.

## ELIGIBILITY TO DECLARE KINESIOLOGY

Kinesiology currently accepts declarations once a year, from December 1st through February 1st. The on-campus declaration form is located on the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page, along with information about the declaration period, deadline, and current eligibility requirements. Students should consult this site prior to submitting a declaration as this information may be modified from one declaration period to the next.

Off-campus students wishing to transfer directly into Kinesiology should complete the on-campus declaration and must also be admitted to UW-Madison. See Transfer Students and Students with a Bachelor's Degree, below.

## ELIGIBILITY REQUIREMENTS:

- Complete the following prerequisite coursework by the end of the spring semester of the declaration year:

Code	Title	Credits
<b>Biology Sequence</b>		
Complete one of the following Biology sequences:		
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	5

BIOLOGY/BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology <sup>1</sup>	10
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BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	5
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Advanced Placement (AP) Biology exam score of 4 or 5<sup>2</sup>

International Baccalaureate (IB) Biology exam score of 4 or 5<sup>2</sup>

### Chemistry Sequence

Complete one of the following Chemistry sequences:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	9
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CHEM 109	Advanced General Chemistry	5
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CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	10
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### Physics Course

Complete one of the following Physics courses:

PHYSICS 103	General Physics	4
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PHYSICS 201	General Physics	5
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PHYSICS 207	General Physics	5
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### Kinesiology Course

KINES 119	Introduction to Kinesiology	2
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1

Students who take BIOLOGY/BOTANY/ZOOLOGY 151 at UW-Madison or transfer it from another campus must also take BIOLOGY/BOTANY/ZOOLOGY 152 to complete the Biology sequence.

2

Students awarded credit for BIOLOGY/BOTANY/ZOOLOGY 151 via an AP or IB Biology exam score of 4 or 5 have completed the entire Biology sequence.

- Students may complete no more than three of the prerequisite courses during the spring semester of the declaration year. For this purpose CHEM 109 satisfies the full general chemistry requirement and constitutes one course. BIOLOGY/ZOOLOGY 101 and BIOLOGY/ZOOLOGY 102 are counted as two courses in determining eligibility for the program.
- Earn a minimum 2.75 cumulative GPA or a 2.75 cumulative GPA based on the Last 60 Credits Rule by the end of the fall semester of the declaration year.<sup>3</sup>

3

Last 60 Credits Rule - Two grade point averages may be calculated to determine a candidate's eligibility to declare Kinesiology. A GPA may be calculated using (1) UW-Madison and all other all transferable college level coursework attempted and (2) the last 60 credits attempted. The higher GPA of these two calculations will be used for determining eligibility. Once declared, students must earn a semester GPA of 2.75 each semester after declaration. More information on this rule is available here (p. 1545).

Students will be provisionally admitted in the spring, pending the completion of all prerequisite courses and GPA requirements by the end of the spring semester.

## TRANSFER STUDENTS AND STUDENTS WITH A PREVIOUS DEGREE

Transfer students and second degree candidates (students who already hold a Bachelor's degree) must be admitted to UW-Madison to enroll in a School of Education program. Admission to the campus has its own application, admission process, and application deadlines; see Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for campus application information.

Students wishing to transfer directly into Kinesiology should complete both the on-campus Kinesiology declaration and the UW-Madison application. All eligibility requirements must be met. Other transfer and second degree candidates will be admitted to UW-Madison with the Pre-Kinesiology designation.

Second degree candidates in the School of Education are changing their academic direction and wish to complete a degree that is unrelated to their first. A large number of credits are usually required to complete the new degree requirements and a second undergraduate degree is awarded upon its completion; more information is available here (p. 1545).

Off-campus students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their declaration. Consultations with advisors are available in person, virtually, or via telephone; email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) or call 608-262-1651 to schedule an appointment.

## ADVISING AFTER DECLARATION

The Kinesiology department holds mandatory spring orientation sessions for new majors, led by a departmental advisor. The sequencing of coursework and enrollment in Kinesiology courses are addressed at these meetings. Students will be authorized to enroll in Kinesiology courses after the orientation meetings are completed.

After declaration, advising about the major will be provided by the Department of Kinesiology. Majors are required to meet with the departmental advisor at least once per semester. All questions about School of Education and university requirements should be referred to an advisor in the School of Education Student Services office.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

### The School of Education's Liberal Studies

**Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

## PROGRAM STRUCTURE

The Kinesiology program has five components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Science core* coursework offers in-depth study of the basic sciences and mathematics.
- *Kinesiology core* courses look at how the body responds and adapts to exercise, the role of psychological factors in sports and exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the life span.
- *Advanced coursework in Kinesiology* requires at least 11 credits of Kinesiology electives, thus giving students some flexibility to tailor the program to their specific interests.
- *Elective* classes are generally related to the student's area of study and are taken to reach the minimum of 120 credits.

## SCIENCE CORE

Code	Title	Credits
Select one of the following:		5-10
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I and Chemical Principles II	
Select one of the following:		4-10
AP or IB Biology score of 4 or above		
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102	Animal Biology and Animal Biology Laboratory	
BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOCORE 381 & BIOCORE 382	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory	
Select one of the following:		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	

PHYSICS 207	General Physics	
PSYCH 202	Introduction to Psychology	3-4

Code	Title	Credits
Complete one option:		0-10
Placement into MATH 221		
MATH 112 & MATH 113	Algebra and Trigonometry (or test out of 112 and/or 113)	
MATH 114	Algebra and Trigonometry	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II (both courses must be taken)	

Select one of the following:		3
STAT 371	Introductory Applied Statistics for the Life Sciences	
STAT 301	Introduction to Statistical Methods	
PSYCH 210	Basic Statistics for Psychology	
ANAT&PHY 335	Physiology	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory	2

## KINESIOLOGY CORE

Code	Title	Credits
KINES 116	First Aid and Basic Life Support <sup>1,2</sup>	2
KINES 119	Introduction to Kinesiology <sup>1</sup>	2
KINES 300	Practicum in Kinesiology <sup>3</sup>	3
KINES 314	Physiology of Exercise	4
KINES 318	Biomechanics of Human Movement	3
KINES 330	Research in Kinesiology	2
KINES 350	Introduction to Exercise Psychology <sup>1</sup>	3
KINES 361	Motor Learning and Performance	3

Select one of the following: 3

KINES 355	Socio-Cultural Aspects of Physical Activity	
KINES 521	Physical Activity and Health	
KINES 540	Diversity in Health and Physical Activity Settings	
KINES 600	Advanced Exercise Psychology	

1

KINES 116, KINES 119 and KINES 350 may be taken prior to admission into the professional part of the undergraduate program.

2

Students may exempt from KINES 116 First Aid and Basic Life Support by completing American Red Cross First Aid **AND** either American Red Cross Basic Life Support or American Red Cross CPR/AED for Professional Rescuers.

If a student wishes to request that a different course (or courses) be considered, contact the Department of Kinesiology undergraduate office PRIOR to enrolling.

3

Criminal background investigations may be conducted for some students, based on the site of the practicum assignment. The cooperating agency to which the student has been assigned will determine if a background check is necessary.

## ADVANCED COURSEWORK IN KINESIOLOGY

This requirement was previously listed under the Exercise and Movement Science option; (p. 1737) it has not changed.

Select a minimum of 11 credits from the following:

Code	Title	Credits
KINES 250	Sedentary Behavior in the U.S. and Abroad	3
KINES 312	Technology for Physical Activity and Health Professionals	2
KINES 325	Group Development and Behavior Management	3
KINES 360	Lifespan Motor Development	3
KINES 387	The Young Athlete: Considerations for Exercise, Medicine, and Activity	2
KINES 390	Principles of Exercise Leadership	2
KINES 427	Fitness Testing and Exercise Prescription	3
KINES 501	Theory-Based Health Education and Health Promotion Programs	3
KINES 508	Workshop in Kinesiology (Topic: Theories and Strategies for Behavioral Change)	3
KINES/ NURSING 523	Clinical Exercise Testing & Training	3
KINES/ NUTR SCI 525	Nutrition in Physical Activity and Health	3
KINES 527	Principles of Strength and Conditioning	3
KINES 531	Neural Control of Movement	3
KINES 555	Sports Science & Athlete Monitoring	3
KINES 614	Biological Factors Influencing Exercise Performance	3
KINES 615	Laboratory Techniques in Exercise Physiology	2
KINES 618	Biomechanics	2-3

## ELECTIVE COURSEWORK

Select additional courses to reach the minimum of 120 credits.

## CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW-Madison campus coursework. Consult the School of Education's Academic

Policies and Procedures (p. 1545) for additional information about the Continuation requirement.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

These requirements are based on UW-Madison coursework.

- Must earn a minimum 2.50 cumulative grade point average. Graduation GPA may be modified by the Last 60 Credits Rule (p. 1545).
- Major residency: Students must complete a minimum of 15 credits from the Department of Kinesiology while enrolled on the UW-Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW-Madison campus, excluding retroactive credits and credits granted by examination.
- Must complete a minimum of 120 credits.

### DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Knowledge) Define and explain major concepts across the breadth of kinesiology.
2. (Application) Apply their knowledge related to movement and physical activity techniques and approaches in clinical and applied settings to enhance human health and quality of life.
3. (Critical Thinking) Demonstrate competence in the scientific research process, which includes the ability to consume, analyze, interpret and critically review scientific literature.
4. (Communication) Develop appropriate styles of written and oral communication to use both within and outside of the scientific community.

## FOUR-YEAR PLAN

### Kinesiology: Sample Four-Year Plans

A four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

Two plans are presented below. The first is for students testing into **MATH 112 Algebra**, followed by a plan for students testing into MATH 211 Calculus or MATH 221 Calculus and Analytic Geometry 1.

### For Students Testing Into MATH 112 Algebra

Freshman				
Fall	Credits	Spring	Credits	
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3	3
MATH 112 (also meets Quantitative Reasoning A)	3	KINES 119		2
Liberal Studies course work	9-12	BIOLOGY/ ZOOLOGY 101		3
		CHEM 103		4
		Ethnic Studies		3

	Liberal Studies course work	0-3
<b>15</b>		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
BIOLOGY/ ZOOLOGY 102	2	PHYSICS 103	4
CHEM 104	5	STAT 371 or PSYCH 210 (also meets Quantitative Reasoning B)	3
MATH 113	3	KINES 116	2
PSYCH 202	3	Liberal Studies or General Elective course work	6
Liberal Studies course work	3-6		
<b>16</b>			<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
KINES 330 or 361	2-3	KINES 361 or 330	2-3
KINES 350 (or Advanced Kines Elective) <sup>1</sup>	3	KINES 314	4
ANAT&PHY 335	5	ANAT&PHY 337	3
Advanced Kines Elective <sup>1</sup>	3	ANAT&PHY 338	2
		KINES 350 (or Advanced Kines Elective)	3
<b>14</b>			<b>14</b>

**Senior**

Fall	Credits	Spring	Credits
KINES 318 or 300	3	KINES 300 or 318	3
Communication B - Select one of the following in the fall or spring semester	3	Communication B - Select one of the following in the fall or spring semester	3
KINES 355		KINES 355	
KINES 521		KINES 521	
KINES 600		KINES 600	
Advanced Kines Elective	2	Advanced Kines Elective	3
Liberal Studies, Advanced Kines Elective or General Elective course work	8-11	Liberal Studies, Advanced Kines Elective or General Elective course work	6-9
<b>16</b>			<b>15</b>

**Total Credits 120**

<sup>1</sup>  
A total of 11 credits of Advanced Kines Electives are required. Elective course options are 2-3 credits.

**For Students Testing Into MATH 211 Calculus or MATH 221 Calculus and Analytic Geometry 1 (Quantitative Reasoning A met)**

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3

CHEM 103	4	KINES 119	2
Liberal Studies course work	8-11	CHEM 104	5

	Liberal Studies course work	0-8
<b>15</b>		<b>15</b>

**Sophomore**

Fall	Credits	Spring	Credits
BIOLOGY/ ZOOLOGY 101	3	STAT 371 or PSYCH 210	3
BIOLOGY/ ZOOLOGY 102	2	KINES 116	2
PHYSICS 103	4	PSYCH 202	3
Ethnic Studies	3	Liberal Studies or General Elective course work	7
Liberal Studies course work	4		
<b>16</b>			<b>15</b>

**Junior**

Fall	Credits	Spring	Credits
KINES 330 or 361	2-3	KINES 361 or 330	2-3
KINES 350 (or Advanced Kines Elective) <sup>1</sup>	3	KINES 314	4
ANAT&PHY 335	5	ANAT&PHY 337	3
Advanced Kines Elective <sup>1</sup>	3	ANAT&PHY 338	2
		KINES 350 (or Advanced Kines Elective)	3
<b>14</b>			<b>14</b>

**Senior**

Fall	Credits	Spring	Credits
KINES 318 or 300	3	KINES 300 or 318	3
Communication B - Select one of the following either in the fall or spring semester	3	Communication B - Select one of the following either in the fall or spring semester (KINES 600 is not offered in the spring)	3
KINES 355		KINES 355	
KINES 521		KINES 521	
KINES 600		Advanced Kines Elective	3
Advanced Kines Elective	2	Liberal Studies, Advanced Kines Elective or General Elective course work	7-10
Liberal Studies, Advanced Kines Elective or General Elective course work	7-10		
<b>15</b>			<b>16</b>

**Total Credits 120**

<sup>1</sup>  
A total of 11 credits of Advanced Kines Electives are required. Elective course options are 2-3 credits.

## ADVISING AND CAREERS

### KINESIOLOGY ADVISING

Students not yet admitted to Kinesiology meet with an advisor in the School of Education Student Services office, see below. Once admitted to the professional program, students are also advised in the Department of Kinesiology.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

#### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers

- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Kinesiology majors include:** fitness instructor, personal trainer, exercise physiologist, research assistant/specialist, physical therapy aide, health and wellness manager, performance enhancement and management, certified nursing assistant, medical device salesperson, strength and conditioning coach, programming administrator, and project manager. Our graduates also pursue graduate studies in physical therapy, public health, medicine, exercise science, athletic training, occupational therapy, and more.

Students develop important skills that employers look for, including:

- Communication
- Collaboration
- Critical thinking/analytical skills
- Supporting diverse populations with diverse needs
- Application of theory to practice
- Influencing and motivation

Applied experiences, including paid internships, practicum experiences, career treks, and professional networking events, are available to UW Kinesiology students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website. (<https://kinesiology.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW–Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW–Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in



venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

## KINESIOLOGY AND THE WISCONSIN EXPERIENCE

**Research in the Kinesiology Department** – Students are serving as Research Assistants in the labs of Professors Cook, Ausderau, Andreae, Schrage, Barnes, and Mason, and also in the Promotion of Health Equity & Adapted Physical Activity (PHEAPA) lab. Kinesiology students may apply for the American Physiological Society Summer Undergraduate Research Fellowship.

**Participation in Departmental Activities** – Undergraduate students are members of the Equity, Climate, Diversity and Undergraduate Studies Committees, are peer learning facilitators in ANAT&PHY 335 and 337, and participate in the KinEqT Mentorship Program.

The peer learning facilitators hold study groups for current Kines students either in ANAT&PHY 335 or 337. These students have a weekly meeting with the instructional staff to cover common challenges in the content and to go over the plan for the study groups, including community building, active learning, and peer facilitation strategies. This is not a tutoring session, but a peer-led facilitation of learning by asking questions and helping the students work with the material in new ways.

The new KinEqT mentorship program is organized by graduate students to help undergraduate students connect and build community in the Department. The program helps facilitate mentorship and access to resources—both academic and professional—between graduate and undergraduate students with underrepresented racial, disability, social class and gender identities, especially those who are underrepresented within the UW-Madison Department of Kinesiology.

**Related Student Organizations** – Sports Medicine & Athletic Healthcare Club, Pre-PT club, Kinesiology Club, Students for Rare, an organization that promotes activism for individuals suffering from rare diseases, and Letters of Love, writing positive letters for children in hospitals.

**Study Abroad Courses** – In the summer of 2023 the Department of Kinesiology offered two new study abroad courses in Portugal and Costa Rica.

- **Movement as Medicine in Portugal** examines the connection between sedentary behavior and health outcomes in Portugal. Participants review definitions and rates of sedentary behavior, physical activity and physical inactivity in the U.S. and across the globe. While in Lisbon, participants hear from local experts and members of the healthcare and educational systems about how physical activity is viewed and promoted across the population. Side trips to relevant cultural local places contribute to the full picture of health in Portugal. An overnight trip to Porto and two additional day trips provide additional opportunities to learn more about local culture and history.
- **Team Building in Costa Rica** was designed to enhance the group development skills of its participants while engaging in activities such as white-water rafting, ziplining and hiking. It combined a very successful kinesiology course, Kinesiology 325 Group Development and Behavior Management, with a unique cultural opportunity in Costa Rica. Each day provides opportunities to not only explore the Pura Vida (Pure Life)

of Costa Rica, but also to engage in personal reflection.

Participants experience the process of growing together as a community and develop skills to create lasting communities in their personal and professional lives. Students earn credit for Kines 325, a required course in the physical education program.

**Volunteering** – Students have volunteered to work with Ballroom Basics for Balance (BB4B), GiGi's Playhouse, and helped out in adapted fitness, assisted living, and pro bono clinic settings.

**Paid Work Experiences Related to Kinesiology** – Current Kines students have found employment in some of the following areas: Physical Therapy Aide, University Health Services Student Health Technician – SH/GYN Clinic, Nuclear Cardiac Stress Testing Intern, UnityPoint Health, Nursing Care Partner, Recreation & Wellbeing, Nicholas Recreation Center Member Services Supervisor, Badger Sports Camps, UW-Madison, Cardiac Rehab Intern SSM St Mary's Hospital Center of Wellness, Personal Caregiver, Home Health Aide.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## KINESIOLOGY: EXERCISE & MOVEMENT SCIENCE

**Admissions to the Kinesiology: Exercise & Movement Science, B.S. have been suspended as of fall 2022 and will be discontinued as of fall 2025. If you have any questions, please contact the department.**

Due to the suspension and discontinuation of the Exercise and Movement Science option, the courses listed on this Requirements tab have merged with the other Kinesiology, B.S. Degree (p. 1731) requirements; see the Kinesiology Core and Advanced Kinesiology Electives. The Kinesiology degree requirements have not changed with the elimination of this option.

## REQUIREMENTS

Due to the suspension and discontinuation of the Exercise and Movement Science option the courses listed here have merged with the other Kinesiology, B.S. Degree (p. 1731) requirements; see the Kinesiology Core and Advanced Kinesiology Electives. The Kinesiology degree requirements have not changed with the elimination of this option.

**Select at least 11 credits from the following:**

Code	Title	Credits
KINES 312	Technology for Physical Activity and Health Professionals	2
KINES 325	Group Development and Behavior Management	3
KINES 360	Lifespan Motor Development	3
KINES 390	Principles of Exercise Leadership	2
KINES 427	Fitness Testing and Exercise Prescription	3

KINES 501	Theory-Based Health Education and Health Promotion Programs	3
KINES 508	Workshop in Kinesiology (Topic: Theories and Strategies for Behavioral Change)	3
KINES/ NURSING 523	Clinical Exercise Testing & Training	3
KINES/ NUTR SCI 525	Nutrition in Physical Activity and Health	3
KINES 527	Principles of Strength and Conditioning	3
KINES 531	Neural Control of Movement	3
KINES 555	Sports Science & Athlete Monitoring	3
KINES 614	Biological Factors Influencing Exercise Performance	3
KINES 615	Laboratory Techniques in Exercise Physiology	2
KINES 618	Biomechanics	2-3

### Select one of the following:

Code	Title	Credits
KINES 355	Socio-Cultural Aspects of Physical Activity	3
KINES 521	Physical Activity and Health	3
KINES 600	Advanced Exercise Psychology	3

## PHYSICAL EDUCATION, B.S.

Now more than ever, our society is focusing on health. The UW-Madison physical education program is committed to developing professionals who will provide the best movement experiences possible. Improvements in physical education experiences can inspire increased physical activity, with the potential to benefit the health of millions of people.

The Bachelor of Science degree in Physical Education prepares individuals for careers in a variety of areas. At the heart of the degree is the physical education teacher education program, which has been preparing excellent physical educators since 1911. The Bachelor of Science degree in Physical Education is the key to obtaining physical education teaching positions in Wisconsin, other states, and internationally. Graduates of the program have received state-level awards for their teaching accomplishments.

A degree in physical education also readies individuals for other career paths. Some graduates have pursued teaching positions outside of school settings. Other graduates of the program have successful careers in many positions unrelated to teaching. Program alumni are well represented in the areas of coaching and officiating, recreation, fitness, healthcare and sport management. A few alumni are coaching at the NCAA Division I level or working for the U.S. Olympic Committee or the Cincinnati Bengals.

The careers of some of our physical education alumni are highlighted here (<https://kinesiology.education.wisc.edu/academics/undergraduate-programs/bs-in-physical-education/alumni-of-pete/>).

We are committed to transforming physical education into a powerful experience in which students develop physical, mental, and social skills for life. To that end, our program includes the following elements:

- A standards-based curriculum
- A cutting-edge conceptual approach to teaching physical education
- “Hands-on” guided teaching
- Culturally responsive teaching techniques in urban, inclusive, and multicultural settings
- Social and emotional learning that incorporates community building and behavior management
- Appropriate and sequential motor skill development

Physical education students also benefit from:

- Nationally and state recognized faculty and staff members
- Certification options in Adapted Physical Education and Health Education
- Small class sizes and advising groups
- A strong science and technology based curriculum
- Instruction within the nationally ranked UW-Madison School of Education

Physical education students have the opportunity for professional growth as they earn their degree. Students have given presentations at professional conferences and are currently serving in leadership positions for Wisconsin Health and Physical Education or the Society of Health and Physical Educators Midwest District.

Graduates are eligible to apply for a Wisconsin Physical Education license at the Kindergarten through Grade 12 level. Students intending to teach in Wisconsin may be eligible for the Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/>), an opt-in loan forgiveness program for teacher education students.

## HOW TO GET IN

### PHYSICAL EDUCATION DECLARATION OVERVIEW

Students interested in a degree in Physical Education can enter UW-Madison with a Pre-Physical Education classification. They spend their initial semesters completing liberal studies, general education, and science core requirements.

UW-Madison students who started in another major can move to Pre-Physical Education by completing a Pre-Professional Declaration (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A GPA of 2.75, based on all UW-Madison coursework or the last 60 credits (p. 1545), is required to transfer into Pre-Physical Education.

It is not necessary to be a Pre-Physical Education student before declaring the Bachelor of Science in Physical Education.

## DECLARING BACHELOR OF SCIENCE IN PHYSICAL EDUCATION (BSPE) ON-CAMPUS STUDENTS

On-campus students may declare the Bachelor of Science in Physical Education degree at any time, provided they have met the following requirements:

- Have second-year academic standing.
- Earned a minimum 2.75 cumulative GPA (4.00 scale) on all college work attempted, or a 2.75 on the last 60 credits (<https://guide.wisc.edu/undergraduate/education/#policiesandregulationstext>).
- Have met with a Physical Education or School of Education Student Services advisor who will submit the declaration form; see Contact Information for details.

1

Last 60 Credits Rule - Two grade point averages may be calculated to determine a candidate's eligibility to declare Physical Education. A GPA may be calculated using (1) UW-Madison and all other all transferable college level coursework attempted and (2) the last 60 credits attempted. The higher GPA of these two calculations will be used for determining eligibility. Once declared, students must earn a semester GPA of 2.75 each semester after declaration. More information on this rule is available here (p. 1545).

## OFF-CAMPUS TRANSFERS TO UW-MADISON

Off-campus students wishing to transfer to UW-Madison and declare the Bachelor of Science in Physical Education degree must be admitted to UW-Madison. Admission to the university has its own application, admission process, and application deadlines; see Office of Admissions and Recruitment (<http://www.admissions.wisc.edu/>) for application information. Students also need to meet with a Physical Education or School of Education Student Services advisor, who will determine if the following eligibility requirements to declare the BSPE degree have been met:

- Have second year academic standing.
- Earned a minimum 2.75 cumulative GPA (4.00 scale) on all college work attempted or 2.75 on the last 60 credits (<https://guide.wisc.edu/undergraduate/education/#policiesandregulationstext>).

See Contact Information for details. The advisor will submit the declaration form if the student has met the eligibility requirements. Transfer students who do not meet the declaration eligibility requirements may be admitted to UW-Madison with the Pre-Physical Education classification.

## STUDENTS WITH A PREVIOUS UNDERGRADUATE DEGREE

Students who already hold a Bachelor's degree and wish to become certified to teach Physical Education must be admitted to UW-Madison. Admission to the university has its own application, admission process, and application deadlines; see Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for university application information.

Students need to meet with a Physical Education or School of Education Student Services advisor who will (1) review the student's eligibility to declare the BSPE degree, and (2) discuss their admission status, see below. Eligibility requires that a student has:

- Earned a minimum 2.75 cumulative GPA (4.00 scale) on all college work attempted or 2.75 on the last 60 credits (<https://guide.wisc.edu/undergraduate/education/#policiesandregulationstext>).

See Contact Information for details. The advisor will submit the declaration form if the student has met the eligibility requirement.

An applicant with a previous undergraduate degree will be admitted to Physical Education as a second degree candidate or as a School of Education "Special Student," depending on their academic background. *Second degree candidates* in the School of Education are changing their academic direction and wish to complete a degree that is unrelated to their first degree. A large number of credits are usually required to complete the new degree requirements and a second degree is awarded upon its completion; more information is available here (p. 1545).

Admission as an *Education Special Student* indicates that the applicant wishes to pursue teacher certification in Physical Education and studied it extensively during their initial degree. An individual enrolls in Physical Education as a Special Student to complete the requirements that were not taken during the first degree; these are assessed on a case by case basis. Another degree is not awarded for this "certification only" coursework.

All returning students are strongly advised to meet with an advisor in the School of Education Student Services office before applying for admission to UW-Madison. Consultations with advisors are available in person, virtually, or via telephone; email [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu) ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) or call 608-262-1651 to schedule an appointment.

## BACKGROUND CHECKS

Pursuant to State of Wisconsin law PI 34.018(2), the School of Education is required to administer a background check on all students entering teacher education programs. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK-12 pupils. Local school districts frequently conduct background checks on teacher education students prior to the start of their in-classroom field work, and the Department of Public Instruction (DPI) will also conduct a background check on each applicant for a Wisconsin educator license.

Students should be aware that background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who has been deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the Teacher Education Center, [tec@education.wisc.edu](mailto:tec@education.wisc.edu).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

### PROGRAM STRUCTURE

The Physical Education program has six components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Science Core* coursework offers in-depth study of the basic sciences and mathematics.
- *Kinesiology Core* courses look at how the body responds and adapts to exercise, the role of psychological factors in sports and exercise, mechanics applied to biological systems, and how movement is controlled, learned, and developed over the life span.
- The *Physical Education requirements* focus on advanced study in Physical Education pedagogy, including teaching methods coursework and field experiences in the schools.
- *Education* coursework includes an examination of the school's relationship to our society and also of the processes by which students grow and learn.
- *Elective* coursework is taken to reach the minimum of 120 credits required for the degree.

While not required, teaching certifications in Adapted Physical Education and Health Education are also offered. See Additional Certification Options (p. 1741), below.

### SCIENCE AND KINESIOLOGY CORE COURSES

With the exception of KINES 116 First Aid and Basic Life Support and KINES 121 Foundations of Physical Education, Kinesiology coursework must

be taken after admission into the professional part of the undergraduate program.

Code	Title	Credits
MATH 112	Algebra	3
CHEM 108 or CHEM 103	Chemistry in Our World General Chemistry I	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 235	Human Physiology and Health	4
KINES 116	First Aid and Basic Life Support <sup>1</sup>	2
KINES 308	Biomechanics of Physical Activity	2
KINES 314	Physiology of Exercise	4
KINES 361	Motor Learning and Performance	3

<sup>1</sup>

Students may exempt from KINES 116 First Aid and Basic Life Support by completing American Red Cross First Aid **AND** either American Red Cross Basic Life Support or American Red Cross CPR/AED for Professional Rescuers, enroll here. (<https://www.redcross.org/take-a-class/>) If a student wishes to request that a different course (or courses) be considered, contact the Department of Kinesiology undergraduate office PRIOR to enrolling.

## PHYSICAL EDUCATION COURSES

Effective for Fall, 2023 program admission.

Code	Title	Credits
KINES 121	Foundations of Physical Education	2
KINES 315	Assessment and Research in Physical Activity Pedagogy	3
KINES 316	Adapted Physical Activity	3
KINES 325	Group Development and Behavior Management	3
KINES 327	Current Topics in Outdoor Pursuits	1
KINES 353	Health and Physical Education in a Multicultural Society	3
KINES 372	Methods and Practicum of Teaching PK-12 Educational Games and Fitness	3
KINES 373	Methods and Practicum of Teaching 6-12 Physical Education	4
KINES/CURRIC 478	Elementary School Physical Education Student Teaching	6
KINES/CURRIC 479	Middle School or High School Physical Education Student Teaching	6

## PROFESSIONAL EDUCATION COURSES

Code	Title	Credits
<b>Learning (Minimum of 3 credits)</b>		
ED PSYCH 301	How People Learn	3
<b>Foundations of the Profession: (Minimum of 3 credits)</b>		
ED POL 300	School and Society	3

or ED POL/  
HISTORY 412

History of American Education

## ADDITIONAL CERTIFICATION OPTIONS

Physical Education students are encouraged to increase their content knowledge and teaching capabilities through additional training. Although not required, teaching certifications are available in Health Education and Adapted Physical Education. Students may pursue more than one additional certification.

### HEALTH EDUCATION MINOR, 23-24 CREDITS.

Contact Cindy Kuhrasch, [cnkuhrasch@wisc.edu](mailto:cnkuhrasch@wisc.edu), for additional information about the Health Education minor (p. 1723).

### ADAPTED PHYSICAL EDUCATION, 15 CREDITS.

Certification in Adapted Physical Education requires the coursework listed below. Contact Cindy Kuhrasch, [cnkuhrasch@wisc.edu](mailto:cnkuhrasch@wisc.edu), 608-262-4348, for additional information regarding this certification.

Code	Title	Credits
<b>Required Courses</b>		
KINES 316	Adapted Physical Activity (required of all PE majors)	3
KINES 300	Practicum in Kinesiology (Adapted Sport and Fitness:Adults)	1-3
KINES 364	Assessment and Programming in Adapted Physical Education	3
KINES 365	Practicum: Adapted Physical Education (Children)	2
RP & SE 300	Individuals with Disabilities	3
<b>Select one elective. Requires advisor approval.</b>		
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3
RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	3
RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
CS&D 110	Introduction to Communicative Disorders	3
CS&D 240	Language Development in Children and Adolescents	3
CS&D 424	Sign Language I	2
PSYCH 405	Abnormal Psychology <sup>1</sup>	3-4

## CONTINUATION REQUIREMENT: DEPARTMENT OF KINESIOLOGY

All students admitted to undergraduate programs in the Department of Kinesiology, including Physical Education, must maintain a cumulative grade point average (GPA) of at least 2.75, based on all UW-Madison campus course work. Consult the School of Education's Academic Policies and Procedures (p. ) for additional information about the continuation requirement.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- A minimum of 120 credits.
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300–699) in residence on the UW–Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus. Student teaching and practicum are considered part of the 30 credits.

### DEGREE AUDIT (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW–Madison’s program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program’s requirements and require no additional attention. The

endorsement of the program coordinator/faculty is also required to receive certification through UW–Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K–12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure (p. 1745).

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Standard 1: Scientific Foundational Knowledge. Physical education candidates demonstrate an understanding of scientific foundations for the delivery of an effective preK–12 physical education program.
2. Standard 2: Physical Education Foundational Knowledge. Physical education candidates demonstrate an understanding of theoretical foundations for the delivery of an effective preK–12 physical education program.
3. Standard 3: Physical Education Content Knowledge. Physical education candidates understand physical education content, concepts and skills associated with the development of a physically educated student.
4. Standard 4: Planning for Instruction. Physical education candidates plan developmentally appropriate learning experiences aligned with local, state and/or SHAPE America National Standards and Grade-Level Outcomes for K–12 Physical Education.
5. Standard 5: Instructional Delivery and Management. Physical education candidates engage students in meaningful learning experiences through effective use of pedagogical skills. They use communication, feedback, and instructional and managerial skills to enhance student learning.
6. Standard 6: Assessment of Student Learning. Physical education candidates select and implement appropriate assessments to monitor students’ progress and guide decision making related to instruction and learning that do not marginalize students.

7. Standard 7: Technology. Physical education candidates select and implement a variety of technologies to enhance learning, as well as personal and professional productivity.
8. Standard 8: Social-Emotional Learning and Trauma Based Practices. Physical education candidates understand and utilize a variety of practices critical to SEL and positive mental health outcomes.
9. Standard 9: Professional Responsibility. Physical education candidates demonstrate behaviors essential to becoming effective professionals.

## FOUR-YEAR PLAN

### Physical Education – Sample Four-Year Plan

This sample four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with your academic advisor(s) to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
KINES 121	2	KINES 116	2
Communication A	3	CHEM 108	5
POLI SCI 104	4	MATH 112 (Also meets Quantitative Reasoning A)	3
Liberal Studies coursework	6	Liberal Studies coursework	3
		General Electives	2
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
KINES 325	3	KINES 315 (Also meets Quantitative Reasoning Part B)	3
ED PSYCH 301	3	KINES 316	3
Liberal Studies coursework	6	KINES 327	1
General Elective	4	ANAT&PHY 337	3
		General Electives	5
	<b>16</b>		<b>15</b>

#### Junior

Fall	Credits	Spring	Credits
KINES 308	2	KINES 372	4
KINES 353 (Also meets Communication Part B)	3	ANAT&PHY 235	4
KINES 361	3	Liberal Studies coursework	3
General Electives	7	General Electives	5
	<b>15</b>		<b>16</b>

#### Senior

Fall	Credits	Spring	Credits
KINES 314	4	KINES/CURRIC 478	6
KINES 373	4	KINES/CURRIC 479	6
ED POL/HISTORY 412 (Also meets U.S./European History)	3		
General Electives	5		
	<b>16</b>		<b>12</b>

**Total Credits 120**

## ADVISING AND CAREERS

### PHYSICAL EDUCATION ADVISING

Prospective off-campus and on-campus physical education students will meet with Dan Timm in the Department of Kinesiology. Students considering physical education should schedule an appointment with Dr. Timm, dtimm@education.wisc.edu, or call 608-262-0259, as soon as possible. Pre-declaration advising is conducted by the Department of Kinesiology and staff in the School of Education Student Services office, see below.

Students with either a pre-certification (PED) or certification (BSPE) classification are required to meet with their department advisor at least once per semester. Mandatory advising meetings are conducted every semester, just before enrollment begins for the following semester.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

## CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Kinesiology can be found on the department's website (<https://kinesiology.education.wisc.edu/people/>). (<https://kinesiology.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in

venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

## PHYSICAL EDUCATION AND THE WISCONSIN EXPERIENCE ON-CAMPUS ACTIVITIES AND EXPERIENCES

**Smartphone App Development** – Physical education staff and students recently partnered with experts in the academic technology department to create a smartphone app, "EnCourage." The app provides hundreds of team-building activities for use by teachers, coaches, and anyone trying to develop teamwork with groups. Its development was one of the School of Education Innovation Projects, "Social and Emotional Learning in Physical Education."

**Participation in the Virginia Horne Henry PE History Project** – Current students met with physical education alumni to share stories, learn about the rich program history, and establish new traditions to enhance the program.

**Partnering with the Campus Recreation Program to Train Officials** – Students in Kinesiology 373 Methods and Practicum of 6-12 Physical Education developed training modules for the RecWell employees (UW students) who serve as officials for the intramural sports.

**UW-Madison Science Expeditions Presentation** – Students and staff in the physical education program set up a station at this campus-wide open house where students could test the speed of their overhand throw, receive feedback from the physical education students, and increase their throwing speed.

**Youth Coaches Workshop** – Through PLACE, physical education students helped to design a summer workshop to help area youth coaches incorporate teamwork into their practice sessions.

**Guest Speakers** – Past guest speakers in physical education classes have included Brett Fuller, retired Health and Physical Education Curriculum Director for Milwaukee Public Schools, and Chris Munson, an enrolled member of the Oneida Nation.

## OFF-CAMPUS ACTIVITIES AND EXPERIENCE

**Team Building Activities** – In Kinesiology 325 Group Development and Behavior Management students develop and plan team-building activities. The students then visit a local elementary school to teach these activities and help students develop positive social and emotional skills.

**Teaching in Area Schools** – Students in physical education methods courses provide physical education and social skill development in area schools.

**Partnering with Boys and Girls Club of Dane County** – Physical education students and staff provide training on the implementation of social and emotional learning for after-school staff.

**Boys and Girls Clubs of Dane County Thanksgiving Baskets** – Students from the physical education program create games that students can play in their homes over the Thanksgiving holiday. The activities are included in the Thanksgiving baskets that are delivered to over 500 homes in the Dane county area. In addition, students visit the boys and girls club sites, put together the baskets, and hand them out on the day before Thanksgiving. Who wouldn't want to play "Reverse Pig Trash Ball?"



**Volunteering** – Students are volunteering with the Adapted Sports Program at Sun Prairie Area School District, providing assistance in numerous capacities.

**Multicultural Field Experience** – As part of Kines 353 Health and Physical Education in a Multicultural Society, students complete the Multicultural Field Experience in which they work with individuals from a cultural background different than their background. Placements for the MFE have included assisting teachers in school health or physical education classes, or volunteering with an after-school program through Madison School and Community Recreation or a community organization.

## ADDITIONAL ACTIVITIES AND ACCOMPLISHMENTS

**Student Organizations and Memberships** – Students have organized the local PE Club on campus and have memberships with Wisconsin Health and Physical Education.

**Additional Certifications** – In addition to the Physical Education major, most students also complete the Adapted Physical Education Concentration and/or the Health Education Minor.

**Leadership Positions** – One of our students is currently serving as the Future Professionals Vice President-Elect with Wisconsin Health and Physical Education; another student is the Future Professionals representative on the Leadership Council for the Midwest District of the Society of Health and Physical Educators.

**Professional Presentations and Workshops** – Students have given presentations at the Wisconsin Health and Physical Education Convention, the Best Practices in Health and Physical Education Conference, and the UW-Madison Undergraduate Symposium. Another student was involved with the Our Wisconsin inclusion education program at UW-Madison.

**EsTEam First Year Teacher Program** – Physical education staff partner with selected first-year alums to help them incorporate social and emotional learning across their physical education curriculum.

## STUDY ABROAD COURSES

In the summer of 2023 the Department of Kinesiology offered two new study abroad courses in Costa Rica and Portugal.

- **Team Building in Costa Rica** was designed to enhance the group development skills of its participants while engaging in activities such as white-water rafting, ziplining and hiking. It combined a very successful kinesiology course, Kinesiology 325- Group Development and Behavior Management, with a unique cultural opportunity in Costa Rica. Each day provides opportunities to not only explore the Pura Vida (Pure Life) of Costa Rica, but also to engage in personal reflection. Participants experience the process of growing together as a community and develop skills to create lasting communities in their personal and professional lives. Students earn credit for Kines 325, a required course in the physical education program.
- **Movement as Medicine in Portugal** examines the connection between sedentary behavior and health outcomes in Portugal. Participants review definitions and rates of sedentary behavior, physical activity and physical inactivity in the U.S. and across the globe. While in Lisbon, participants hear from local experts and members of the healthcare and educational systems about how physical activity is viewed and promoted across the population. Side trips to relevant cultural local places contribute to the full picture of health in Portugal. An overnight trip to Porto and two

additional day trips provide additional opportunities to learn more about local culture and history.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students interested in certification must, in addition to completing UW-Madison's program requirements, also complete Wisconsin statutory requirements related to teacher education and certification requirements established by the Wisconsin Department of Public Instruction. Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. For additional certification requirements and information about applying for a license, see the Teacher Education Center (<https://tec.education.wisc.edu/current-students/>).

### PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

#### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

#### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

#### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming, District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## PROMOTING ACTIVITY FOR DIVERSE ABILITIES, CERTIFICATE

Are you looking for a great way to gain knowledge and hands-on experience that prepares you for a career in the fields of healthcare, education, fitness, public health, and corporate wellness? Are you interested in enhancing your graduate school application in any of the aforementioned fields?

If you answered “yes,” the Promoting Activity for Diverse Abilities (PADA) Certificate—offered through the Department of Kinesiology—is the perfect blend of coursework and experiential learning. The Kinesiology Department’s mission is to research, teach, and apply knowledge related to movement, exercise, and human occupation with the ultimate goal of enhancing human health, productivity, and quality of life. Students who have completed the PADA Certificate go on to graduate programs and careers in occupational or physical therapy, speech language pathology, genetics counseling, nursing, medicine, special education, adapted physical activity, clinical exercise physiology, physical activity epidemiology, athletic training, public health, and many other exciting and challenging fields.

With a combination of coursework and opportunities to gain hands-on experience working directly with individuals with disabilities, this certificate will prepare you with the specialized knowledge and skills to safely promote and develop physical activities to improve the health, wellness, and functioning of individuals with a wide range of diverse abilities. You will be able to address inclusive activities aimed to improve general activities of daily living, functional fitness, posture, mobility, breathing, nutrition, and falls prevention, as well as adapted sports, fitness and recreation.

Coursework (16–18 credits) in this certificate is made up of a core that includes the topics of anatomy, disability, specialized program planning, and hands-on practica in the UW’s Adapted Fitness Program (<https://kinesiology.education.wisc.edu/academics/certificates/adapted-fitness-and-personal-training/>). One of the UW’s most sought-after volunteer experiences, the Kinesiology Department’s Adapted Fitness Program, located in the heart of campus, offers fitness training and physical activities to community-dwelling clients with a wide variety of permanent and temporary disabilities from heritable disorders, chronic and neurological diseases, and accidental traumas. Students who pursue the PADA certificate receive priority placement for volunteer positions. Elective options for the certificate will also give you some flexibility to tailor the certificate to your specific educational and career interests. Examples of elective topics include dance therapy, communicative disorders, health behavior and diversity in special education.

### HOW TO GET IN

The SoE’s Undergraduate Academic Advising Services will administer the process that students will use to declare enrollment in the certificate. Students declaring in the Certificate must have a minimum grade point average of 2.50 to be eligible for the certificate to align with the School of Education’s requirement for good academic standing. Students intending to complete the Promoting Activity for Diverse Abilities Certificate should visit the School of Education’s Certificate Programs (<https://>

[education.wisc.edu/academics/certificates/](https://education.wisc.edu/academics/certificates/)) page to complete the declaration form.

Students declared in the Physical Education BS may not declare the Certificate in Promoting Activity for Diverse Abilities.

### REQUIREMENTS

Students must complete 16-18 total credits. The 9-10 credits of core courses will provide the foundation content and instruction needed to be successful in subsequent certificate courses and will provide an upper-level course focusing on application and mastering knowledge. Students will also complete 7-8 credits of breadth elective courses that span the departments of Kinesiology, Rehabilitation Psychology and Special Education, Dance, and Communication Sciences and Disorders. Breadth courses give students from a wide array of backgrounds and majors to select courses that will be applicable to a variety of diverse career interests or the students will also have the ability to choose courses in a more narrowed and detailed focus. Allowing for a set of focused elective choices or range of elective topic areas will be a benefit and a draw to students pursuing a variety of career paths.

Certificate students must earn a minimum grade point average of 2.5 on required certificate coursework. At least 8 credits must be taken in residence.

### CORE COURSES

Complete 9-10 credits from the following:

Code	Title	Credits
KINES 225	Practicum in Promoting Activity for Diverse Abilities	1
KINES 227	Introduction to Clinical Anatomy of Human Movement	2
	or ANAT&PHY 337 Human Anatomy	
KINES 516	Physical Activity for Diverse Abilities	3
RP & SE 300	Individuals with Disabilities	3

### BREADTH ELECTIVE COURSES

Complete 7-8 credits from the following:

Code	Title	Credits
CS&D 110	Introduction to Communicative Disorders	3
CS&D 210	Neural Basis of Communication	3
CS&D 424	Sign Language I	2
DANCE 231	Introduction to Dance/Movement Therapy	2
DANCE 232	Introduction to Dynamics of Dance Therapy	2
DANCE 331	Dynamics of Dance Therapy	3
KINES 100	Exercise, Nutrition, and Health	2
KINES 150	Foundations of Health Behavior and Health Equity	3
KINES 360	Lifespan Motor Development	3
KINES 540	Diversity in Health and Physical Activity Settings	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3

RP & SE 466	Diversity in Special Education	3
RP & SE 560	Psychosocial Aspects of Chronic Illness and Disability	3

Education (K-9). This program is offered jointly with the Department of Curriculum and Instruction.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate the ability to increase healthy behaviors and safe activities for persons with diverse abilities.
2. Obtain the skills and knowledge to encourage, empower, and prescribe activity for people who exhibit a wide array of disabling conditions.
3. Identify, create and expand opportunities where larger organizations can create more accessible physical activity programs for those who exhibit diverse abilities.
4. Develop practical skills and knowledge to modify and or adapt activities to minimize the effects of disabling conditions and maximize healthy movement opportunities.

## REHABILITATION PSYCHOLOGY AND SPECIAL EDUCATION

The Department of Rehabilitation Psychology and Special Education is the only department solely committed to improving the lives of people with disabilities, as well as their families. The department uniquely prepares students to support and advocate for the full societal inclusion of people with disabilities across the lifespan. Special education and rehabilitation psychology are intrinsically related, both in basic objectives and in professional education and research. Instruction and research emphasize educational and behavioral assessment, treatment, and inclusion of children, as well as counseling, assessment, case management, advocacy, and job placement with adults to facilitate improved personal, social, and vocational adjustment.

Targeted populations encompassed by the department's programs include adults and children with physical, emotional, intellectual and/or learning disabilities, traumatic brain injuries, substance use disorders, and persons involved with the criminal justice system.

Three undergraduate programs are currently available:

- A pre-professional undergraduate program in Rehabilitation Psychology (p. 1757).
- Special Education (p. 1762), with certification options for three age groups:
  - Kindergarten-Grade 12 (p. 1775)
  - Birth-Grade 3 (p. 1769)
  - Birth-Grade 12 (p. 1771)
- Elementary Education and Special Education (p. 1748) - leading to a certification in Special Education (K-12) and Elementary

### DEGREES/MAJORS/CERTIFICATES

- Disability Rights and Services, Certificate (p. 1747)
- Elementary Education and Special Education, BSE (p. 1748)
- Rehabilitation Psychology, B.S. (p. 1757)
- Special Education, BSE (p. 1762)

### PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website. (<http://rpse.education.wisc.edu/>)

## DISABILITY RIGHTS AND SERVICES, CERTIFICATE

A primary mission of the Department of Rehabilitation Psychology and Special Education is to improve the lives of individuals with disabilities. The Disability Rights and Services Certificate provides undergraduates across the broader campus with knowledge, skills, and dispositions to contribute to the department's mission. Students completing the certificate will become advocates for equity and inclusion of individuals with disabilities within their own major programs of study and future careers.

Two required courses, RP & SE 100 Disability and Society and RP & SE 300 Individuals with Disabilities, address broad themes of disability, equity, and diversity that can be applied to a variety of other disciplines and majors. The certificate also allows students to individualize the certificate by selecting six credits of elective courses from an array of options. These choice courses relate to education, health, social sciences, psychology, and sociology. In this way students can make the certificate more complementary to their major program of study.

### HOW TO GET IN

Students intending to complete the Disability Rights and Services Certificate will find the declaration form on the School of Education's Certificate Programs (<https://education.wisc.edu/academics/certificates/>) page. The declaration for this certificate program can be submitted at any time during the calendar year.

Please note, students completing a major in Rehabilitation Psychology, Special Education, or Elementary Education and Special Education are not eligible to complete this certificate.

## REQUIREMENTS

Complete a minimum of 12 credits to include at least 6 credits in residence. Completion of the certificate requires a minimum GPA of 2.5 in certificate coursework.

Code	Title	Credits
<i>Required courses, 6 credits</i>		
RP & SE 100	Disability and Society	3
RP & SE 300	Individuals with Disabilities	3
<i>Specialization courses, 6 credits</i>		
RP & SE 121	Disability and Substance Abuse	
RP & SE 125	Health and Rehabilitation Professions	
RP & SE/ LEGAL ST 135	Disability and the Criminal Justice System	
RP & SE 200	Issues in Special Education (only offered as a FIG course)	
RP & SE 210	The Disability Experience (only offered as a FIG course)	
RP & SE 310	Positive Psychology and Well Being	
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	
RP & SE 435	Overview of Early Childhood Special Education	
RP & SE 466	Diversity in Special Education	
RP & SE 500	Rehabilitation-Counseling Psychology: Foundations	
RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	
RP & SE 510	Partnering with Families and Other Professionals in Early Childhood Special Education	

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Identify and analyze societal barriers and supports that affect the lives of people with disabilities.
2. Explore the societal aspects of disabilities, including the culture of disabilities, attitudes toward persons with disabilities, and quality of life issues.
3. Evaluate current approaches, advocacy efforts, and proposed solutions for overcoming barriers experiences by people with disabilities.
4. Use disability as a lens through which to examine broader aspects of history and culture, including power, discrimination, social stigma, social and political activism, media representations, re-appropriation, identity, intersectionality, education, work, and design.

## ELEMENTARY EDUCATION AND SPECIAL EDUCATION, BSE

The Elementary Education and Special Education (ESEE) program is a unique opportunity for students to pursue licensure in both Elementary Education and Special Education. Successful graduates of the program are certified in general education at the grade levels of K-9 (including eligibility for 4K), and Special Education in grades K-12 (through age 21). Students graduate to a wide range of opportunities in both general and special education classrooms.

The Department of Rehabilitation Psychology and Special Education has a long-standing mission of preparing future leaders who actively improve the lives of people with disabilities. The ESEE program is designed to prepare future educators who will promote equity, inclusivity and accessibility within both general and special education classrooms. Graduates of this program are equipped to create inclusive learning environments where they will holistically identify and address biases and barriers to learning, and strive to meet the needs of all students.

The Elementary Education and Special Education program is a rigorous four-semester course sequence that includes coursework, practicum and student teaching experiences. Courses include teaching methods in general education classrooms, implementing instructional strategies for helping students with a variety of abilities succeed, creating individualized education programs, as well as assessing learning needs in all core academic areas.

In addition to coursework, students will have hands-on practical experiences in both general and special education classrooms across a range of ages. Students are placed in one general education practicum and student teaching placement along with one special education practicum and student teaching placement, providing them with all the practical experience they need to successfully teach in a K-9 general education classroom or K-12 special education classroom. Students will learn to effectively work with a diverse student population and to create learning environments that foster academic success and social-emotional development for all students.

## THE TEACHER PLEDGE

The School of Education at UW-Madison currently offers a unique financial opportunity for students in the Elementary Education and Special Education program called The Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/>). The school pledges to pay the equivalent of in-state tuition and fees for all teacher education students. In return, students pledge to work at a Wisconsin PreK-12 school for three to four years after graduation.

## HOW TO GET IN

## ELEMENTARY EDUCATION AND SPECIAL EDUCATION (ESEE)

Undergraduate students generally apply to the professional part of the Elementary Education and Special Education (ESEE) degree program in their sophomore year. Selection is made during the spring semester. Currently, students are admitted to the program once a year, effective for

the summer following selection. Once admitted, students typically spend four full semesters completing their remaining coursework.

## ENTERING THE SCHOOL OF EDUCATION

### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen interested in EESE are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in EESE receive the "pre-professional" classification of PSR.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A minimum GPA of 2.5, based on UW-Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p. 1545)). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall. Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu), ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) by calling 608-262-1651, or in person.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the University to enroll in a School of Education program. Admission to the campus has its own application, admission process, and application deadlines; see UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Students wishing to enter directly into EESE should complete both the on-campus program application and the UW-Madison application. All eligibility requirements must be met. Transfers who do not meet the program eligibility criteria will be admitted to UW-Madison with the Pre-Elementary Education and Special Education designation of PSR and apply to EESE at a later time.

Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application. Appointments are available in person, virtually, or via telephone; call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) to schedule an appointment with an advisor.

### STUDENTS WITH A PREVIOUS DEGREE

Applicants who already hold a Bachelor's degree must be admissible to the University to enroll in a School of Education program.

Admission to the campus has its own application, admission process, and application deadlines; see UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Students wishing to enter directly into EESE should complete both the on-campus program application and the UW-Madison application. All eligibility requirements must be met. Applicants who do not meet the program eligibility criteria will be admitted to UW-Madison with a Pre-Elementary Education and Special Education designation and apply to the program at a later time.

An applicant with a previous undergraduate degree will be admitted to EESE as a second degree candidate or as a School of Education "Special Student," depending on their academic background.

*Second degree candidates* in the School of Education are changing their academic direction and wish to complete a degree that is unrelated to their first. A large number of credits are usually required to complete the new degree requirements and a second degree is awarded upon its completion; more information is available here (p. 1545). Most applicants to EESE will be second degree candidates.

Admission as an *Education Special Student* indicates that the student has an interest in pursuing teacher certification in EESE and studied this subject area extensively during their initial degree. A student enrolls in EESE as a Special Student to complete the requirements that were not taken during the first degree; these are assessed on a case by case basis. Another degree is not awarded for this "certification only" coursework.

All off-campus students are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations are available in person, virtually, or via telephone; email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) or call 608-262-1651 to schedule an appointment.

## APPLICATION AND ADMISSION

Certification to teach Elementary Education and Special Education requires that a student be admitted into the professional part of the degree program. The School of Education admits students into the EESE program once a year, effective for summer following selection. In recent years the program has been able to accommodate all qualified applicants.

### PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

#### To be eligible for admission to the professional program, applicants must:

- complete at least 40 transferable college-level credits by the end of the fall semester before application.

- successfully complete RP & SE 300 Individuals with Disabilities (3 cr) by the end of the summer semester of the application year.
- earn a minimum 2.5 grade point average (GPA) on a 4.0 scale on all transferable college-level coursework attempted.<sup>1</sup>
- submit all program application form(s), transcripts, and other related application materials by the application deadline specified on the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page.

### 1

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility for program consideration. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## PROGRAM SELECTION CRITERIA

The faculty will review all completed applications that meet eligibility criteria. When reviewing an application, the faculty want to learn as much about the applicant as possible and will make every effort to take into account the whole person. Applicants are encouraged to provide, in writing, whatever they would want to share in a face-to-face interview.

The selection committee members will consider several factors when selecting students for the program. Although the grade point average (GPA) is considered an important indicator of success, it is not the only basis on which applicants will be selected for admission. Trends in the applicant's grades, difficulty of course load, and outside work load will be considered (see factors 1, 2, and 3 below).

### In addition to the GPA, faculty will consider the following factors:

- **College grading and course selection pattern.** Transcripts will be examined individually. Account will be taken whether an applicant has clearly followed an unusually easy or difficult pattern of courses or if the GPA reflects a poor grade in an exceptionally difficult subject area.

- **Trends of college grades.** An applicant who started very poorly or showed a decline in their early phases of college, but performed strongly in later college years, may be judged more favorably than another with the same GPA but level or declining record.
- **Diversity of experience or background.** Work/life experience, college activity, political activity, and other experiences or background that adds a diverse perspective to the Elementary Education and Special Education student body may work in the applicant's favor. Volunteer or paid work with people with disabilities will be taken into account in the selection process. Volunteer or paid work with people from a background different than the applicant's may also be taken into account in the selection process.
- **Writing sample (Statement of Purpose).** Application materials must include an essay in which the applicant gives reasons for becoming an elementary education and special education teacher. Writing is so important in the professional life of teachers and in the teacher education program that the quality of the applicant's writing will be taken into account in making admissions decisions.
- **Letters of recommendation.** Recommendation letters will play an important role in helping the selection committee judge the applicant's prospects for academic success in the program. Careful, thoughtful letters from mentors, teachers, or employers will provide information about the applicant's intellect, imagination, or prospects for becoming a successful teacher. Working with people with disabilities will be taken into account in the selection process. Working with people from a background different than the applicant's may also be taken into account in the selection process.
- **Other factors.** The program's quest for diversity leads the selection committee to take into account fully qualified applicants from under-represented groups. Race, ethnicity, cultural, geographic background, and economic disadvantage are among the factors that will be considered, taking into account the needs of the schools. A full-time or extra heavy part-time work load will be considered a factor in close cases.

## BACKGROUND CHECKS

Pursuant to State of Wisconsin law PI 34.018(2), the School of Education is required to administer a background check on all students entering teacher education programs. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety, or education of PK-12 pupils. Local school districts frequently conduct background checks on teacher education students prior to the start of their in-classroom field work, and the Department of Public Instruction (DPI) will also conduct a background check on each applicant for a Wisconsin educator license.

Students should be aware that background checks may be initiated by other agencies or organizations when they are seeking employment or a professional license. School administrators have the authority to determine the appropriateness of a student placement and may choose not to permit a placement based on a student's background check results.

An individual who has been deemed ineligible to participate in field or clinical experiences based on the results of their background check may

not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the Teacher Education Center, [tec@education.wisc.edu](mailto:tec@education.wisc.edu).

**Note:** Students cannot complete the Certificate in Disability Rights and Services in conjunction with this program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education’s Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic

advisors can offer suggestions for courses that meet the requirement and augment the student’s primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

### PROGRAM STRUCTURE

The Elementary Education and Special Education program has four primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Professional education* coursework includes an examination of the schools’ relationship to our society and the processes by which students grow and learn.
- *Core Requirements* offer an in-depth study of Elementary Education and Special Education, including a four-semester *professional sequence* of teaching methods coursework and field experience in schools. This sequence is designed so that students can complete the program in four years.
- *Elective* coursework is taken to reach the required minimum of 120 credits.

The Elementary Education and Special Education major requires 70 credits of professional coursework in addition to other degree requirements. RP & SE 300 Individuals with Disabilities must also be completed prior to beginning the professional sequence.

## INDIVIDUALS WITH DISABILITIES - PREREQUISITE FOR PROGRAM ADMISSION

This course must be completed by the end of the summer of the application year, before beginning the professional course sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

## PROFESSIONAL SEQUENCE

The professional coursework was designed to be completed in four semesters, starting in the fall after admission to the program. Each semester of the sequence must be followed sequentially and taken in consecutive semesters unless a modification is approved. Most classes must be taken during specified semesters, while other requirements may be completed prior to beginning the sequence.

Code	Title	Credits
<b>Semester 1 (Fall)</b>		
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities 1	3
CURRIC/ RP & SE 406	Race, Intersectionality, and Equity in Education 1	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
RP & SE 605	Development, Learning and Education Foundations in Special Education 1	3
<b>Semester 2 (Spring)</b>		
CURRIC 318	Teaching Reading and Writing	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2 1	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 472	Methods in Transition and Vocational Education	3
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 476	Special Education Practicum: Secondary (Grades 4-12)	3
<b>Semester 3 (Fall)</b>		
RP & SE/ CURRIC 365	Teaching Mathematics in Inclusive Settings	3
CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
RP & SE 466	Diversity in Special Education	3
RP & SE 515	Access to the General Curriculum for Students with Disabilities	3
CURRIC 373	Elementary Teaching Practicum III	3
<b>Semester 4 (Spring)</b>		
CURRIC 463	Seminar in Elementary Education	1

CURRIC 464	Student Teaching in the Elementary School	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	7
<b>Total Credits</b>		<b>70</b>

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

A minimum of 120 credits is still required to complete the degree.

## CONTENT AREA MINOR (OPTIONAL REQUIREMENT)

Students may elect to complete a minor in one of the following content areas. Minors provide a depth of study in a particular area of interest and also inform classroom instruction. Upon completion, the minor will be posted on the UW-Madison transcript, **but students will not receive an additional certification in the subject area.** The Wisconsin Department of Public Instruction no longer offers content licenses in association with the K-9 educator license.

The completion of a minor is required to teach middle school licensing in some states and may benefit students particularly interested in teaching at this level. See the links below for the requirements of each minor.

### Minor Options

- Biology (p. 1614)
- Chemistry (p. 1616)
- Earth Science (p. 1623)
- Economics (p. 1624)
- English (p. 1649)
- English Language Arts (p. 1646)
- Geography (p. 1650)
- History (p. 1653)
- Mathematics (p. 1660)
- Mathematics and Science Dual (p. 1658)
- Mathematics Specialized (p. 1660)
- Physics (p. 1661)
- Political Science (p. 1662)
- Psychology (p. 1666)
- Science Specialized (p. 1666)
- Social Studies (p. 1667)
- Sociology (p. 1676)

## ELECTIVE COURSEWORK

Complete additional courses as necessary to reach the minimum of 120 credits required for the degree.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. The State of Wisconsin requires that anyone wishing to teach



in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Requirements below are based on UW-Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- 2.75 cumulative grade point average in the minor, if required.
- Minimum 120 credits (degree candidates only).
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300-699) in residence on the UW-Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW-Madison campus. Student teaching and practicum are considered part of the 30 credits.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW-Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department

of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (<http://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-bse/#certificationlicensuretext>)

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Use knowledge of learners and human development to create responsive, inclusive, and respectful learning activities and environments that maximize learners' cognitive, linguistic, social, emotional, and physical development.
2. Use knowledge of learners, contexts, disciplines, pedagogies, and standards to plan and adjust developmentally appropriate and challenging learning activities and assessments.
3. Use knowledge of learners, contexts, disciplines, pedagogies, and standards to implement planned and unplanned developmentally appropriate, challenging, and learner-responsive learning activities and maintain safe, inclusive, and respectful learning environments.
4. Create and implement meaningful assessments and use assessment results to inform instruction, communicate with parents and others, and provide feedback to learners to guide their future performance and learning.
5. Exhibit professionalism and adhere to ethical practices as they continue their own development and collaborate with others to improve their profession, school communities, and outcomes for students and families.
6. Use studies completed in science and mathematics, social sciences, the humanities, histories, languages, and the arts to inform and deepen their teaching of content areas and meeting learners' needs.

## FOUR-YEAR PLAN

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a

contractual agreement. Use it along with your DARS report and Course Search and Enroll to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	9-12	Quantitative Reasoning A work	3
		RP & SE 300	3
		Liberal Studies course work	5-8
	<b>12</b>		<b>14</b>

**Sophomore**

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies course work	7
Ethnic Studies	3	Liberal Studies or General Elective course work	5
Liberal Studies course work	6		
	<b>12</b>		<b>12</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 319 <sup>1</sup>	3	CURRIC 318 (Also meets Communication B)	3
RP & SE 330 <sup>1</sup>	3	CURRIC 320 <sup>1</sup>	3
CURRIC/RP & SE 406 <sup>1</sup>	3	RP & SE 464	3
RP & SE 465	3	RP & SE 472	3
CURRIC 550	3	RP & SE 473	3
RP & SE 605 <sup>1</sup>	3	RP & SE 476	3
	<b>18</b>		<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
RP & SE/CURRIC 365	3	CURRIC 463	1
CURRIC 371	3	CURRIC 464	7
CURRIC 372	3	RP & SE 457	1
RP & SE 466	3	RP & SE 477	7
RP & SE 515	3		
CURRIC 373	3		
	<b>18</b>		<b>16</b>

**Total Credits 120**

1

May be taken before semester 1 of the professional sequence, including prior to program admission.

A minimum of 120 credits is still required to complete the degree.

**ADVISING AND CAREERS****ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION**

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

**CAREER ADVISING IN THE SCHOOL OF EDUCATION**

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

## PEOPLE

Information about faculty, staff, and other contributors to Elementary Education and Special Education can be found on the websites of the Department of Rehabilitation Psychology and Special Education (<https://rpse.education.wisc.edu/>) and the Department of Curriculum and Instruction (<https://ci.education.wisc.edu/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW–Madison’s vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW–Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

### ELEMENTARY EDUCATION AND SPECIAL EDUCATION (ESEE) AND THE WISCONSIN EXPERIENCE COMMUNITY-BASED LEARNING

RP & SE 300 Individuals with Disabilities includes a field-based experience where students engage in work that directly or indirectly supports a person with a disability. Hundreds of student each year are placed in a wide variety of placement sites ([https://docs.google.com/document/d/1gXUjnpFCgJdWTMVyLFIRTQCE4s9ipFsXYtz\\_K5OoCM/edit?usp=sharing](https://docs.google.com/document/d/1gXUjnpFCgJdWTMVyLFIRTQCE4s9ipFsXYtz_K5OoCM/edit?usp=sharing)) in the Madison area. This experience allows students to gain first-hand knowledge of the contributions of, and services provided to, individuals with disabilities within the community.

### GUEST SPEAKERS

RP & SE 300 also brings the community into the classroom. A number of guest speakers from the community provide insight regarding the range of experiences people with disabilities have while conducting their daily lives. Students also learn about the variety of community organizations engaged in the support of, and advocacy for, people with disabilities.

A wide variety of guest speakers attend practicum and student teaching seminars, including school district personnel, parents and family members, teachers, and individuals with disabilities.

## FIELD EXPERIENCES

Students in the ESEE program have multiple field experiences in K-12 schools, culminating in a full-time student teaching experience following the semester of the cooperating school.

## PARTNERING WITH COMMUNITY ORGANIZATIONS

The ESEE team partners with area communities to assist with food delivery to families. Students volunteer with organizations such as Special Olympics, Camp Kesem, and Girls on the Run, a program designed to inspire girls of all abilities to embrace their inner strength and to build healthy social, emotional, and physical skills.

## GETTING TO KNOW THE COMMUNITY

A Community Based Asset Mapping exercise asks students to explore the strengths and assets of the communities in which their field placement school resides. Time is spent in and around the attendance area of their schools to develop an understanding of the places, people, spaces, and experiences that influence their pupils and consequently are brought to school. Students are encouraged to venture outside the classroom and get to know the families and communities of their pupils by attending a community activity such as a worship service or a community potluck.

## FIELD TRIPS

While completing field experiences, students enjoy trips to places in the Madison community, such as the Madison Children’s Museum, Madison Public Library’s Play Lab, Allen Botanical Gardens, Centro Hispano and the Madison Literacy Network.

## STUDY ABROAD

Our students are encouraged to explore cultures other than their own by studying abroad. If a semester or year-long program isn’t possible, the School of Education has recently developed some exciting new study abroad opportunities where a single class is taken in the summer.

## CLUBS AND ORGANIZATIONS

ESEE students have multiple opportunities to participate in related campus organizations such as Aspiring Educators of Wisconsin and Game Design and Development.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students interested in certification must, in addition to completing UW–Madison’s program requirements, also complete Wisconsin statutory requirements related to teacher education and certification requirements established by the Wisconsin Department of Public Instruction. Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW–Madison. For additional certification requirements and information about applying for a license, see the Teacher Education Center (<https://tec.education.wisc.edu/current-students/>).

### APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department

of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

## LICENSING LEVELS

The following licensing options will be offered at UW–Madison.

- The core Elementary Education licensing level will be Kindergarten through Grade 9. Early Childhood, and English as a Second Language Kindergarten through Grade 12, can be added to the K-9 option.
- Special Education will offer licensing at the Early Childhood level, Kindergarten through Grade 12 level, and a program option that licenses in both Early Childhood Special Education and K-12 Special Education. The new Elementary Education and Special Education degree certifies students in both Special Education Kindergarten through Grade 12 and Elementary Education Kindergarten through Grade 9.
- Secondary Education program areas will license in their subject area Grades 4 through 12, and also in English as a Second Language Kindergarten through Grade 12.
- World Language Education program areas will license at the Kindergarten through Grade 12 level.
- Students in special fields such as Art, Music, and Physical Education will be licensed at the Kindergarten through Grade 12 level.
- Health and Library Media Specialist both license at the Kindergarten through Grade 12 level.
- Communication Sciences and Disorders (Speech-Language Pathology) will license at the K-12 level.

## WISCONSIN STATE LICENSING

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo/>). A background check will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission/>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, L139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that

1. all certification requirements are met;
2. student teaching (following the school district calendar) is completed;
3. final grades are posted and reviewed;
4. the degree is "posted" by the registrar's office (one to four weeks after graduation); and

5. a recommendation for certification is received from the program faculty.

The Wisconsin Department of Public Instruction may require an additional 6 to 8 weeks for license processing.

## LICENSING OUTSIDE OF WISCONSIN

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website (<https://education.uky.edu/accreditation/certification/states/>) that provides links to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to the School of Education Teacher Education Center at L139 Education Building, 1000 Bascom Mall, Madison, WI 53706, or by email ([educatorlicensing@education.wisc.edu](mailto:educatorlicensing@education.wisc.edu)) to be completed. You must complete your personal information on the form before sending it to the Teacher Education Center. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must also be completed before sending the form to the Teacher Education Center.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming, District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources

for students in the School of Education can be found on the school's Resources (p. 1567) page.

## REHABILITATION PSYCHOLOGY, B.S.

Rehabilitation Psychology is the academic home to students interested in the health or helping professions. Rehab Psych students enjoy working with people with disabilities or individuals who experience barriers in accomplishing personal goals; they gravitate toward psychology and other coursework in the social sciences.

In this major students learn how to promote and support the independence and full inclusion of people with disabilities in employment and the community. Students in the major examine various types of disabilities and other short-term or long-term barriers including physical, mental, intellectual, emotional, and developmental disabilities. Graduates are prepared to provide quality entry-level general services in a variety of community settings, including advocacy, behavioral support, independent living, and supported employment.

The majority of students go on to complete graduate programs in rehabilitation counseling, mental health counseling, occupational therapy, physical therapy, nursing, special education, social work, and other human services and health professions.

The culminating experience in the degree program is the community-based internship. Students complete six credits of internship, a minimum of 240 hours, working with agencies that serve individuals with disabilities. Students often find full-time employment at their internship site after completing their degree. Graduates receive a Bachelor of Science degree with a major in Rehabilitation Psychology.

Visit the departmental website (<http://rpse.education.wisc.edu/>) to view the program handbook (<https://rpse.education.wisc.edu/current-students/forms/>), learn more about internship opportunities and guidelines, and what students have to say (<https://www.youtube.com/watch?list=PL9F9013685146C73A&v=Zu0u1MOjvB4&feature=youtu.be>) about the program.

*"I chose to pursue rehabilitation psychology as I want to become an occupational therapist one day. This major allowed me to meet requirements for graduate programs while also furthering my passion to be a part of the human service field. I had a lot of opportunities to go out into the community and make a difference in people's lives." Aneta Glowacz, Rehab Psych B.S. graduate 2020*

## HOW TO GET IN

### REHABILITATION PSYCHOLOGY DECLARATION

New first-year students and off-campus transfers are admitted directly to the Bachelor of Science–Rehabilitation Psychology degree program.

On-campus students starting at UW-Madison in other majors can declare Rehabilitation Psychology at any time of the year, and at any point in their academic career. First-semester students who have not established a GPA at UW-Madison may declare Rehabilitation Psychology.

Students are strongly encouraged to meet with the department's undergraduate program coordinator or an advisor in the School of Education Student Services office before declaring Rehabilitation Psychology. See the Overview (<https://guide.wisc.edu/undergraduate/education/rehabilitation-psychology-special-education/rehabilitation-psychology-bse/>) page for contact information.

### ELIGIBILITY TO DECLARE REHABILITATION PSYCHOLOGY

The on-campus declaration form is located on the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page, along with other information about current eligibility requirements and deadlines to declare (if any). Students should consult this site prior to submitting a declaration as this information may be modified from one year to the next.

Off-campus students wishing to transfer directly into Rehabilitation Psychology must be admitted to UW-Madison. See Transfer Students and Students with a Bachelor's Degree, below.

Students may not complete both Rehabilitation Psychology and the Certificate in Disability Rights and Services.

### ELIGIBILITY REQUIREMENTS:

- Earn a minimum 2.50 cumulative GPA based on all college coursework attempted or a 2.50 last 60 credits GPA by the end of the term prior to the declaration semester. This GPA must be maintained at the end of the declaration semester.<sup>1</sup>

1

Last 60 Credits Rule - Two grade point averages may be calculated to determine a candidate's eligibility to declare. A GPA may be calculated using (1) UW-Madison and all other all transferable college level coursework attempted and (2) the last 60 credits attempted. The higher GPA of these two calculations will be used for determining eligibility. Once declared, students must earn a semester GPA of 2.50 each semester after declaration. More information on this rule is available here (p. 1545).

### TRANSFER STUDENTS AND STUDENTS WITH A PREVIOUS DEGREE

Transfer students and second degree candidates (students who already hold a Bachelor's degree) must be admitted to UW-Madison to enroll in a School of Education program. Admission to the campus has its own application, admission process, and application deadlines; see Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>) for campus application information.

Second degree candidates in the School of Education are changing their academic direction and wish to complete a degree that is unrelated to their first. A large number of credits are usually required to complete the new degree requirements and a second undergraduate degree is awarded upon its completion; more information is available here (p. 1545).

All off-campus students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their declaration. Consultations with advisors are available in person, virtually, or via telephone; email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) ([soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu)) or call 608-262-1651 to schedule an appointment.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education's Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

## PROGRAM STRUCTURE

The Bachelor of Science (B.S.) degree program in Rehabilitation Psychology has four components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Related coursework* comes from departments related to Rehabilitation Psychology—Psychology, Educational Psychology, Sociology, Social Work, and Gender and Women's Studies.
- *Rehabilitation Psychology* coursework offers an in-depth study of working with people with disabilities, including multiple opportunities for supervised field experience. In addition, at least 12 credits of electives in Rehabilitation Psychology are required, giving students some flexibility to tailor the program to their specific interests.
- *Elective* coursework is taken to meet the minimum of 120 credits required for the degree.

## RELATED COURSE REQUIREMENTS

### PSYCHOLOGY/EDUCATIONAL PSYCHOLOGY

Complete 12 credits selected from Educational Psychology ([http://guide.wisc.edu/courses/ed\\_psych/](http://guide.wisc.edu/courses/ed_psych/)) and/or Psychology (<http://guide.wisc.edu/courses/psych/>) to include PSYCH 405 Abnormal Psychology.

## SOCIOLOGY/SOCIAL WORK/GENDER AND WOMEN'S STUDIES

Complete 6 credits selected from Sociology (<http://guide.wisc.edu/courses/soc/>), Social Work ([http://guide.wisc.edu/courses/soc\\_work/](http://guide.wisc.edu/courses/soc_work/)), and/or Gender and Women's Studies ([https://guide.wisc.edu/courses/gen\\_ws/](https://guide.wisc.edu/courses/gen_ws/)). Recommended areas include social disorganization, deviant behavior, alcohol and other drug abuse, community development, and issues in social welfare.

## REHABILITATION PSYCHOLOGY COURSE REQUIREMENTS

### DIDACTIC CORE

Complete the following 21 credits:

Code	Title	Credits
RP & SE 125	Health and Rehabilitation Professions	3
RP & SE 316	Health Promotion for Individuals with Disability and Chronic Illness	3
RP & SE 325	Self Management of Chronic Illness and Disability	3
RP & SE 500	Rehabilitation-Counseling Psychology: Foundations	3
RP & SE 501	Rehabilitation-Counseling Psychology: Applications	3
RP & SE 505	Biological, Psychosocial, and Vocational Aspects of Disabilities	3
COUN PSY 655	Clinical Communication Skills	3

### SUPERVISED FIELD EXPERIENCE

Complete 6 credits of RP & SE 630 Internship in Rehabilitation or Special Education; once in conjunction with RP & SE 501 Rehabilitation-Counseling Psychology: Applications. The remaining 3 credits may be completed in another semester or during the summer.

## REHABILITATION PSYCHOLOGY AND SPECIAL EDUCATION ELECTIVES

Complete 12 credits from the following:

Code	Title	Credits
RP & SE 121	Disability and Substance Abuse	3
RP & SE/ LEGAL ST 135	Disability and the Criminal Justice System	3
RP & SE 300	Individuals with Disabilities	3
RP & SE 310	Positive Psychology and Well Being	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities	3
RP & SE 335	Introduction to Sport Psychology	3
RP & SE 355	Remote Service Provision Strategies for Health and Rehabilitation Providers	3
RP & SE 405	Current Topics in Special Education (Related topics only - approval required)	1
RP & SE 520	Case Management and Community Resources	3

RP & SE 535	Introduction to Forensic Rehabilitation	3
RP & SE 560	Psychosocial Aspects of Chronic Illness and Disability	3
RP & SE 630	Internship in Rehabilitation or Special Education (Maximum 3 additional internship credits allowed in electives)	2-3
RP & SE 660	Special Topics (Related topics only - approval required)	3

## ELECTIVE COURSEWORK

Complete additional coursework to reach the minimum of 120 credits.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Based on UW-Madison coursework.

- 2.50 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.50 cumulative grade point average in all major coursework. This GPA includes all coursework from the RP & SE department and COUN PSY 655.
- Major Residency. The rehabilitation psychology program requires that students complete 15 credits of the Didactic Core and Supervised Field Experience coursework while in residence on the UW-Madison campus.
- Senior Residency. Degree candidates must complete their last 30 credits in residence on the UW-Madison campus, excluding retroactive credits and credits granted by examination.
- Total Credits. A minimum of 120 degree credits are required for graduation.

## DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options,

research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Analyze complex social issues using skills gained through the study of communication, quantitative reasoning, humanities, social sciences, natural sciences, ethnic studies, history and global issues.
2. Apply knowledge of models and concepts of disability and chronic illness to education, employment, rehabilitation, and healthcare services.
3. Identify basic theories in the field of psychology and recognize the importance of theoretical foundations in psychology for the study of rehabilitation, disability, and health.
4. Develop knowledge of the health and human services delivery systems and demonstrate pre-professional skills in communication, teamwork, problem solving, and ethical issues through engagement with the healthcare and rehabilitation services professional community.
5. Demonstrate the knowledge and skills necessary for graduate study in a variety of health and human service fields related to disability and rehabilitation or for entry-level positions in disability and related human services agencies.

## FOUR-YEAR PLAN

### Rehabilitation Psychology: Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests. Consult with an academic

advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
RP & SE 125	3	Ethnic Studies	3
Sociology, Social Work, or Gender and Women's Studies course	3	Quantitative Reasoning A	3
Liberal Studies course work	6-9	PSYCH 202	3
		Liberal Studies course work	3-6
	<b>15</b>		<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits
Sociology, Social Work, or Gender and Women's Studies course	3	PSYCH 405	3
RP & SE Elective	3	RP & SE Elective	3
Quantitative Reasoning B	3	Liberal studies course work	9
Liberal Studies course work	6		
	<b>15</b>		<b>15</b>

### Junior

Fall	Credits	Spring	Credits
RP & SE 316	3	RP & SE 325	3
RP & SE 500	3	RP & SE 501 (also meets Communication B)	3
COUN PSY 655	3	RP & SE 630	3
Liberal Studies or General Elective course work	6	Liberal Studies or General Elective course work	6
	<b>15</b>		<b>15</b>

### Senior

Fall	Credits	Spring	Credits
RP & SE 505	3	RP & SE 630	3
RP & SE Elective	3	RP & SE Elective	3
Educational Psychology or Psychology course	3	Educational Psychology or Psychology course	3
Liberal Studies or General Elective course work	6	Liberal Studies or General Elective course work	6
	<b>15</b>		<b>15</b>

**Total Credits 120**



## ADVISING AND CAREERS

### REHABILITATION PSYCHOLOGY ADVISING

Students not yet admitted to Rehabilitation Psychology meet with their assigned advisor in the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, see below. Students are assigned an additional faculty advisor when admitted to the professional component of their degree program.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

#### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers

- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

#### Potential careers for Rehabilitation Psychology majors include:

adaptive fitness; rehabilitation services (social, mental, behavioral and physical); disability education, policy or advocacy; community health and wellness; independent living; supported employment; and correctional services. Our graduates also pursue graduate degrees in rehabilitation counseling, mental health counseling, occupational therapy, physical therapy, nursing, special education, social work, and other human services and health professions.

Students develop important skills that employers look for including:

- Communication
- Critical thinking/analytical skills
- Collaboration and teamwork
- Client-centeredness/empathy
- Influencing in support of diversity, equity, and inclusion at individual, community, and systemic levels

Applied experiences, including community-based internships, career treks, and professional networking events, are available to UW Rehabilitation Psychology students.

### ADDITIONAL RESOURCES

Students interested in graduate study may also want to consult the following resources:

- Center for Pre-Health Advising (<https://prehealth.wisc.edu/>)
- M.S. in Clinical Rehabilitation Psychology (<https://rpse.education.wisc.edu/academics/graduate-programs/master-of-science-m-s-in-rehabilitation-counseling/>)
- Occupational Therapy at UW-Madison (<https://kinesiology.education.wisc.edu/elotd/>)
- Physical Therapy at UW-Madison (<http://www.med.wisc.edu/physical-therapy-program/main/48437/>)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website (<https://rpse.education.wisc.edu/fac-staff/>).

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines

learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW–Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

## REHABILITATION PSYCHOLOGY AND THE WISCONSIN EXPERIENCE

**Undergraduate Research** – More than a dozen students are working with professors and graduate students on research in rehabilitation psychology. Several are leading their own research with faculty support, and many students presented at the spring Undergraduate Research Symposium.

**Community-Based Learning** – RP & SE 300 Individuals with Disabilities includes a field-based experience where students engage in work that directly or indirectly supports a person with a disability. Hundreds of student each year are placed in a wide variety of placement sites ([https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz\\_K5OoCM/edit/?usp=sharing](https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz_K5OoCM/edit/?usp=sharing)) in the Madison area. This experience allows students to gain first-hand knowledge of the contributions of, and services provided to, individuals with disabilities within the community.

**Guest Speakers** – RP & SE 300 also brings the community into the classroom. A number of guest speakers from the community provide insight regarding the range of experiences people with disabilities have while conducting their daily lives. Students also learn about the variety of community organizations engaged in the support of, and advocacy for, people with disabilities.

**Internships** – All RPS students participate in 240 hours of internship in the community, a real strength of the program. Students are placed in a wide variety of sites (<https://rpse.education.wisc.edu/current-students/rehabilitation-psychology-internships/>) that reflect their areas of interest.

**Clubs and Organizations** – Our students are active participants in many clubs and organizations, including Special Olympics and Camp Kesem.

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## SPECIAL EDUCATION, BSE

Special Education is the academic home to many students who enjoy working with children and youth, especially children and youth with disabilities. Special Education graduates enter a high-need field with an almost 100% job placement rate, with graduates finding employment in Wisconsin and across the country.

Students admitted to Special Education will have four certification options. Each of these options can be completed within a four-semester professional sequence that includes coursework, field experiences, and starts each fall.

### CERTIFICATION OPTIONS

#### Special Education Cross-Categorical K-12

The program prepares educators to serve as resources and advocates for persons with disabilities and their families. This includes being a leader, collaborating with others, and working creatively within and outside schools to create inclusive educational experiences to improve the quality of life for individuals with disabilities and their families.

Graduates are prepared to work effectively across disability categories, including intellectual and developmental disabilities, learning disabilities, and emotional/behavioral disorders. The program emphasizes coursework and experiences in elementary, middle, and high schools with students who have a wide range of abilities, including students with severe disabilities.

Elementary Education K-9 and Special Education K-12 (p. 1748)

The Elementary Education and Special Education teacher certification program prepares educators who foster high academic achievement in all children—particularly students of color, students from minoritized racial, cultural, linguistic and socioeconomic backgrounds, as well as students with disabilities. The program helps students become leaders who collaborate and work creatively within and outside schools to foster inclusive educational experiences for all pupils, including those with disabilities. Program graduates understand the important role that families play in supporting students' development and achievement.

This program emphasizes collaboration, with training in both Elementary and Special Education program areas. It focuses on inclusion and gaining a strong background in working with students across disability categories, including learning disabilities, emotional/behavioral disorders, and other high incidence disabilities.

Graduates receive a Bachelor of Science degree in Education and will be eligible to receive an Elementary Education license in grades K-9 and a Special Education license in grades K-12.

#### Early Childhood Special Education (ECSE)

Graduates will be certified in ECSE, ages birth-grade 3. This program prepares early intervention and early childhood special education professionals to serve young children ages birth through eight years who have, or are at-risk for, developmental delays and disabilities, as well as the families of these children. Graduates may work in a variety of settings including, but not limited to: Early Head Start, Head Start, licensed childcare centers, 4K programs, and grades kindergarten-grade 3.

#### Early Childhood Special Education and Special Education Cross-Categorical K-12

This option will prepare educators to support the needs of students with disabilities from birth through Grade 12. Students will be certified in both ECSE and Special Education Cross-Categorical K-12.

## THE TEACHER PLEDGE

The School of Education at UW-Madison currently offers a unique financial opportunity for students in Special Education programs called The Teacher Pledge (<https://tec.education.wisc.edu/teacher-pledge/>). The school pledges to pay the equivalent of in-state tuition and fees for all teacher education students. In return, students pledge to work at a Wisconsin PreK-12 school for three to four years after graduation.

## MADISON COLLEGE TRANSFER AGREEMENT

Madison College students should also investigate the transfer agreement (<https://tec.education.wisc.edu/become-a-teacher/uw-madison-school-of-education-transfer-agreement/>) between Madison College and UW-Madison. Students meeting the requirements of this agreement are guaranteed admission to UW-Madison's School of Education and to Special Education.

## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

Undergraduate students generally apply to the professional part of the Special Education degree program in their sophomore year. Selection is made during the spring semester. Currently, students are admitted to the program once a year, effective for the summer following selection. Once admitted, students typically spend four semesters completing their remaining coursework.

Information about application procedures for the Elementary-Special Education dual teacher certification option is available in the Elementary Education (p. 1625) section of the Guide.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW-MADISON STUDENTS

New freshmen and transfer students interested in special education are admitted directly to the School of Education with a "pre-professional" classification. This classification indicates that a student is interested in a program offered by the school, but has not applied and been admitted to the professional program. Students interested in special education receive the "pre-professional" classification of PSR.

On-campus students wishing to be admitted to the school while working on eligibility requirements and application can apply for admission to the school by completing a Pre-Professional Application (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>). A minimum GPA of 2.5, based on UW-Madison coursework, is required to transfer into the school. This GPA may be modified by the Last 60 Credits rule (detailed below (p.     )). It is not necessary to be a "pre-professional" student before applying to a professional program.

It is strongly recommended that students interested in a School of Education program meet with an academic advisor in the School of Education Student Services office, 139 Education Building, 1000 Bascom Mall. Students may call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) to schedule an appointment with an advisor.

### PROSPECTIVE TRANSFER STUDENTS

Applicants not already enrolled on the UW-Madison campus must be admissible to the University to enroll in a School of Education program. Admission to UW-Madison requires a separate application and admission process. See UW-Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Prospective transfer students are strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) to schedule an appointment with an advisor.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective applicants who already hold an undergraduate degree are strongly encouraged to meet with an advisor in the School of Education Student Services office in advance of their application. Consultations with advisors are available in person, by telephone or online; call 608-262-1651 or email [soeacademicservices@education.wisc.edu](mailto:soeacademicservices@education.wisc.edu) to schedule an appointment.

Applicants who already hold an undergraduate degree are admitted to the School of Education as either an *Education Special student* or a *second degree student*, depending on their interests and academic background. Admission as an Education Special student indicates that the student has an interest in pursuing certification in a subject area studied during the initial degree; another degree is not awarded for this "certification only" coursework. Second degree students are seeking a second, unrelated degree from the School of Education, which may, or may not, include teacher certification. Candidates for limited enrollment programs must meet all admission eligibility requirements for the program and must compete with the eligible applicants for program admission. More information is available here (p. 1545).

### APPLICATION AND ADMISSION

Certification to teach special education requires that a student be admitted into the professional part of the degree program. The School of Education admits students into the special education program one a year, effective for summer following selection. In recent years the program has been able to accommodate all qualified applicants.

### PROGRAM ADMISSION ELIGIBILITY REQUIREMENTS

Requirements and selection criteria may be modified from one application/admission period to the next. Any changes to these criteria may occur up until the application period begins. Potential applicants should consult the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page for application deadlines and detailed information regarding current eligibility requirements and selection criteria prior to submitting an application.

### To be eligible for admission to the professional program, applicants must:

- complete at least 40 transferable college-level credits by the end of the fall semester before application.
- successfully complete RP & SE 300 Individuals with Disabilities (3 cr) by the end of the summer semester of the application year.
- earn a minimum 2.5 grade point average (GPA) on a 4.0 scale on all transferable college-level coursework attempted.<sup>1</sup>
- submit all program application form(s), transcripts, and other related application materials by the application deadline specified on the School of Education's Undergraduate Admissions (<http://www.education.wisc.edu/soe/academics/undergraduate-students/academic-program-admission/>) page.

1

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

#### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility for program consideration. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

### PROGRAM SELECTION CRITERIA

The special education faculty will review all completed applications that meet eligibility criteria. When reviewing an application, special education faculty want to learn as much about the applicant as possible and will make every effort to take into account the whole person. Applicants are encouraged to provide, in writing, whatever they would want to share in a face-to-face interview.

The selection committee members will consider several factors when selecting students for the program. Although the grade point average (GPA) is considered an important indicator of success, it is not the only basis on which applicants will be selected for admission. Trends in the applicant's grades, difficulty of course load, and outside work load will be considered (see factors 1, 2, and 3 below).

#### In addition to the GPA, faculty will consider the following factors:

- **College grading and course selection pattern.** Transcripts will be examined individually. Account will be taken whether an applicant has clearly followed an unusually easy or difficult pattern of courses or if the GPA reflects a poor grade in an exceptionally difficult subject area.

- **Trends of college grades.** An applicant who started very poorly or showed a decline in their early phases of college, but performed strongly in later college years, may be judged more favorably than another with the same GPA but level or declining record.
- **Diversity of experience or background.** Work/life experience, college activity, political activity, and other experiences or background that adds a diverse perspective to the special education student body may work in the applicant's favor. Volunteer or paid work with people with disabilities will be taken into account in the selection process. Volunteer or paid work with people from a background different than the applicant's may also be taken into account in the selection process.
- **Writing sample (Statement of Purpose).** Application materials must include an essay in which the applicant gives reasons for becoming a special education teacher. Writing is so important in the professional life of teachers and in the teacher education program that the quality of the applicant's writing will be taken into account in making admissions decisions.
- **Letters of recommendation.** Recommendation letters will play an important role in helping the selection committee judge the applicant's prospects for academic success in the program. Careful, thoughtful letters from mentors, teachers, or employers will provide information about the applicant's intellect, imagination, or prospects for becoming a successful teacher. Working with people with disabilities will be taken into account in the selection process. Working with people from a background different than the applicant's may also be taken into account in the selection process.
- **Other factors.** The program's quest for diversity leads the selection committee to take into account fully qualified applicants from under-represented groups. Race, ethnicity, cultural, geographic background, and economic disadvantage are among the factors that will be considered, taking into account the needs of the schools. A full-time or extra heavy part-time work load will be considered a factor in close cases.

### CRIMINAL BACKGROUND INVESTIGATION

The Department of Public Instruction (DPI) is required by law to conduct a background check on each applicant for a Wisconsin educator license. This check is intended to determine if the applicant has engaged in any behavior that endangers the health, welfare, safety or education of PK–12 pupils. Local school districts also will conduct criminal background checks routinely on teacher education students prior to the start of in-classroom field work. Admitted applicants to any teacher education program who have a positive background check should confer with the Academic Dean's Office (Room 139 Education, 1000 Bascom Mall) about the potential impact of this on field placements and licensure.

An individual who is deemed ineligible to participate in field or clinical experiences based on the results of their background check may not be able to complete the requirements for their degree or certification. Students with questions about these processes should contact the Teacher Education Center.

**Note:** Students cannot complete the Certificate in Disability Rights and Services in conjunction with this program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

**The School of Education’s Liberal Studies Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student’s primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

#### Humanities, 9 credits

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

#### Social Studies (Social Science)

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

#### Science

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

#### Cultural and Historical Studies

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete Liberal Studies Electives (p. 1554) to total 40 Credits.**

### PROGRAM STRUCTURE

The Special Education program has four primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Professional education* coursework includes an examination of the schools’ relationship to our society and the processes by which students grow and learn.
- *Core Requirements* offer an in-depth study of Special Education, including a four-semester *professional sequence* of teaching methods coursework and field experience in schools. This sequence is designed so that students can complete the program in four years.
- *Elective* coursework is taken to reach the required minimum of 120 credits.

### SPECIAL EDUCATION OPTIONS – SELECT ONE

View as listView as grid

- SPECIAL EDUCATION: EARLY CHILDHOOD SPECIAL EDUCATION BIRTH - GRADE 3, BSE (P. 1769)
- SPECIAL EDUCATION: EARLY CHILDHOOD SPECIAL EDUCATION/SPECIAL EDUCATION DUAL CERTIFICATION BIRTH-GRADE 12, BSE (P. 1771)
- SPECIAL EDUCATION: KINDERGARTEN - 9TH GRADE/SPECIAL EDUCATION KINDERGARTEN - 12TH GRADE DUAL CERTIFICATION, BSE (P. 1772)
- SPECIAL EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/ELEMENTARY EDUCATION DUAL CERT, BSE (P. 1774)
- SPECIAL EDUCATION: SPECIAL EDUCATION CROSS CATEGORICAL K-12, BSE (P. 1775)

## ELECTIVE COURSEWORK

Complete additional coursework to reach the minimum of 120 credits.

## GPA AND OTHER GRADUATION REQUIREMENTS

### GRADUATION REQUIREMENTS

Students must complete all requirements and also obtain the endorsement of the program faculty advisor(s) to receive certification through UW-Madison. The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Requirements below are based on UW-Madison coursework.

- 2.75 cumulative grade point average. This may be modified by the Last 60 Credits Rule (p. 1545).
- 2.75 cumulative grade point average across all professional education courses (excluding practicum and student teaching).
- 2.75 cumulative grade point average in the major.
- Minimum 120 credits (degree candidates only). Most students will need more than the minimum to complete all requirements.
- Major residency: Degree candidates must complete at least 15 credits of upper-level major coursework (numbered 300-699) in residence on the UW-Madison campus.
- Senior residency: Degree candidates must complete their last 30 credits in residence on the UW-Madison campus. Student teaching and practicum are considered part of the 30 credits.

## DEGREE AUDIT (DARS)

UW-Madison uses "DARS" to document a student's progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the

academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a "what-if" function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a "what if" DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar's website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## ADDITIONAL CERTIFICATION REQUIREMENTS AND APPLYING FOR A LICENSE

In addition to completing UW-Madison's program requirements, students must also complete Wisconsin statutory requirements and certification requirements established by the Wisconsin Department of Public Instruction. Many of these requirements are embedded within the program's requirements and require no additional attention. The endorsement of the program coordinator/faculty is also required to receive certification through UW-Madison.

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license.

Detailed information about certification requirements and applying for a license is available under Certification/Licensure. (p. 1768)

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. (Professionalism) Adhere to professional ethical standards and conduct her or himself in a courteous and professional manner.
2. (Collaboration and Communication) Collaborate and effectively communicate with students their families, other educators, related service providers and members of the community to address the needs of students with disabilities.
3. (Assessment) Collect information on student backgrounds, learning characteristics and achievement that can be used to determine students' present level of performance and guide instruction.
4. (Special Education Evaluation and Individualized Educational Planning) To the maximum possible the teacher candidate will participate in the Educational Evaluation and Individualized Educational Planning process.
5. (Instructional Planning) Plan instruction that meets the needs of students, is consistent with State and local standards and provides access to the general education curriculum.
6. (Instructional Presentations) Present lessons and units of instruction that gain and maintain student attention and are consistent with students' interests and IEP goals.
7. (Classroom Management) Create and maintain a safe, positive and supportive learning environment that is conducive to learning and the mental health of the students.

## FOUR-YEAR PLAN

Refer to the available named options for more information on the four-year plans.

## ADVISING AND CAREERS

### SPECIAL EDUCATION PROGRAM ADVISING

Students not yet admitted to special education meet with their assigned advisor in the School of Education Student Services office, Room 139 Education Building, 1000 Bascom Mall, see below. Students are assigned an additional faculty advisor when admitted to the professional component of their degree program.

### SCHOOL OF EDUCATION ADVISING

#### ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting

them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

### ADDITIONAL RESOURCES

Students interested in special education may also want to consult the following resources:

- Read about the *relationship between Special Education and regular education programs*.
- *Watch a Video* describing the work of Special Educators.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Rehabilitation Psychology and Special Education can be found on the department's website (<https://rpse.education.wisc.edu/rpse/people/faculty/>). (<http://rpse.education.wisc.edu/>)

## WISCONSIN EXPERIENCE

### THE WISCONSIN EXPERIENCE

UW-Madison's vision for the total student experience, the Wisconsin Experience (<https://wisconsinexperience.wisc.edu/about/>), combines learning in and out of the classroom. Tied to the Wisconsin Idea (<https://www.wisc.edu/wisconsin-idea/>) and steeped in long-standing institutional values—the commitment to the truth, shared participation in decision-making, and service to local and global communities—the Wisconsin Experience describes how students develop and integrate these core values across their educational experience.

UW-Madison encourages students to mindfully engage in four core concepts throughout their time on campus: Empathy & Humility, Relentless Curiosity, Intellectual Confidence, and Purposeful Action (<https://wisconsinexperience.wisc.edu/intellectual-confidence/>).

Since its inception the School of Education has embraced the concepts of the Wisconsin Experience, providing opportunities for students to learn in venues beyond the traditional classroom. Our students also independently seek out related activities and experiences, thus creating their own unique Wisconsin Experience.

### SPECIAL EDUCATION AND THE WISCONSIN EXPERIENCE

**Community-Based Learning** - RP & SE 300 Individuals with Disabilities includes a field-based experience where students engage in work that directly or indirectly supports a person with a disability. Hundreds of student each year are placed in a wide variety of placement sites ([https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz\\_K5OoCM/edit?usp=sharing](https://docs.google.com/document/d/1gXUjnpcFCgJdWTMvYLFIRTQCE4s9ipFsXYtz_K5OoCM/edit?usp=sharing)) in the Madison area. This experience allows students to gain first-hand knowledge of the contributions of, and services provided to, individuals with disabilities within the community.

**Guest Speakers** - RP & SE 300 also brings the community into the classroom. A number of guest speakers from the community provide insight regarding the range of experiences people with disabilities have while conducting their daily lives. Students also learn about the variety of community organizations engaged in the support of, and advocacy for, people with disabilities.

A wide variety of guest speakers attend Special Education's practicum and student teaching seminars. This can include school district personnel, parents and family members, teachers, and individuals with disabilities.

**Field Experiences** - Students in our teacher education programs have multiple field experiences in local schools during their professional sequence. A Community Based Asset Mapping exercise asks students to explore the strengths and assets of the communities in which their field placement school resides.

**Clubs and Organizations** - Our students are active participants in many clubs and organizations, including Special Olympics, Aspiring Educators, and Camp Kesem.

## CERTIFICATION/LICENSURE

### ADDITIONAL CERTIFICATION REQUIREMENTS

Students interested in certification must, in addition to completing UW-Madison's program requirements, also complete Wisconsin statutory requirements related to teacher education and certification requirements established by the Wisconsin Department of Public Instruction. Students must complete all requirements and also obtain the endorsement of the program faculty to receive certification through UW-Madison. For additional certification requirements and information about applying for a license, see the Teacher Education Center (<https://tec.education.wisc.edu/current-students/>).

### APPLYING FOR A TEACHING LICENSE

The State of Wisconsin requires that anyone wishing to teach in a public K-12 setting hold a valid teaching license issued through the Department of Public Instruction. In addition to completing a certification program, students must submit a separate application for this license. Students intending to complete a teacher certification program should monitor program requirements carefully. The Wisconsin Department of Public Instruction (DPI) periodically implements regulations that affect all certification programs; teacher certification candidates are responsible for having up-to-date information about certification requirements.

### LICENSING LEVELS

The following licensing options will be offered at UW-Madison.

- The core Elementary Education licensing level will be Kindergarten through Grade 9. Early Childhood, and English as a Second Language Kindergarten through Grade 12, can be added to the K-9 option.
- Special Education will offer licensing at the Early Childhood level, Kindergarten through Grade 12 level, and a program option that licenses in both Early Childhood Special Education and K-12 Special Education. The new Elementary Education and Special Education degree certifies students in both Special Education Kindergarten through Grade 12 and Elementary Education Kindergarten through Grade 9.
- Secondary Education program areas will license in their subject area Grades 4 through 12, and also in English as a Second Language Kindergarten through Grade 12.
- World Language Education program areas will license at the Kindergarten through Grade 12 level.
- Students in special fields such as Art, Music, and Physical Education will be licensed at the Kindergarten through Grade 12 level
- Health and Library Media Specialist both license at the Kindergarten through Grade 12 level.
- Communication Sciences and Disorders (Speech-Language Pathology) will license at the K-12 level.



## WISCONSIN STATE LICENSING

The State of Wisconsin issues an initial teaching license to certified teachers. The current fee is \$125. An online license application is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/elo/>). A background check will also be conducted by DPI. Information about fingerprint submission, when necessary, is available through the Department of Public Instruction (<http://dpi.wi.gov/tepd/licensing/fingerprint/electronic-submission/>).

Before applying for a license, DPI requires the electronic submission of "Endorsed Candidate for Licensure" (ECL) data by the certifying officer of the institution where the teacher preparation was completed. For UW–Madison teacher certification students, the endorsement will come from the School of Education, L139 Education Building, 1000 Bascom Mall. Once this information has been submitted to DPI, students are notified by email that they may begin the application online.

Before endorsing a student, UW–Madison requires that

1. all certification requirements are met;
2. student teaching (following the school district calendar) is completed;
3. final grades are posted and reviewed;
4. the degree is "posted" by the registrar's office (one to four weeks after graduation); and
5. a recommendation for certification is received from the program faculty.

The Wisconsin Department of Public Instruction may require an additional 6 to 8 weeks for license processing.

## LICENSING OUTSIDE OF WISCONSIN

To apply for a license in a state other than Wisconsin, first check out the application requirements of that state. The University of Kentucky has a website (<https://education.uky.edu/accreditation/certification/states/>) that provides links to teacher licensing agencies in all 50 states, the District of Columbia, and Puerto Rico.

Many states have a verification form that needs to be signed by a UW–Madison certification officer. This form verifies that a state-approved licensing program has been completed. These forms should be sent to the School of Education Teacher Education Center at L139 Education Building, 1000 Bascom Mall, Madison, WI 53706, or by email ([educatorlicensing@education.wisc.edu](mailto:educatorlicensing@education.wisc.edu)) to be completed. You must complete your personal information on the form before sending it to the Teacher Education Center. If the form requests information about practicum and student teaching assignments (names of schools, grade levels, dates, etc.), this information must also be completed before sending the form to the Teacher Education Center.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Wisconsin

### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wyoming, District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources for students in the School of Education can be found on the school's Resources (p. 1567) page.

## SPECIAL EDUCATION: EARLY CHILDHOOD SPECIAL EDUCATION BIRTH - GRADE 3, BSE

### REQUIREMENTS

The Early Childhood Special Education option will prepare students to work as educators and early interventionists for children with disabilities from birth through grade 3.

### PREREQUISITE FOR PROGRAM ADMISSION

This course must be completed by the end of the summer of the application year and is calculated into the major gpa required for graduation.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

### EARLY CHILDHOOD SPECIAL EDUCATION PROFESSIONAL SEQUENCE

Students complete a four-semester sequence of professional courses after admission to the program. Although some requirements may be completed prior to program admission, the remaining professional methods courses and clinical (field) experiences must be followed sequentially and taken in consecutive semesters unless a modification is approved. Class schedules for the professional sequence courses are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
CURRIC 663	Learning Environments for Initial Education Programs <sup>1</sup>	3
HDFS 262	Development of the Young Child (preferred) <sup>1</sup>	3
or ED PSYCH 320	Human Development in Infancy and Childhood	
RP & SE 320	Introduction to Teaching in Special Education	3
RP & SE 435	Overview of Early Childhood Special Education <sup>1</sup>	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
<b>Semester 2</b>		
RP & SE 455	Early Childhood Special Education Methods: Inclusive Strategies for Infants and Toddlers	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	3
RP & SE 510	Partnering with Families and Other Professionals in Early Childhood Special Education <sup>1</sup>	3
<b>Semester 3</b>		
HDFS 663	Developmental and Family Assessment	3
RP & SE 460	Early Childhood Special Education Methods: Inclusive Strategies for Preschool and Early Elementary	3
RP & SE 466	Diversity in Special Education	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	4
Select one <sup>1</sup>		3
ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education (also meets U.S./European history)	
RP & SE 605	Development, Learning and Education Foundations in Special Education	
<b>Semester 4</b>		
RP & SE 467	Elementary Student Teaching Seminar	2
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	10

<sup>1</sup> May be taken prior to scheduled semester, including prior to program admission.

## FOUR-YEAR PLAN

### Special Education: Early Childhood Special Education Option

#### Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)		3 Communication A (fall or spring semester)	3
RP & SE 300		3 Ethnic Studies	3
Liberal Studies course work		9-12 Quantitative Reasoning A	3
		Liberal Studies course work	6-9
	<b>15</b>		<b>15</b>

#### Sophomore

Fall	Credits	Spring	Credits
Liberal Studies course work		10 Quantitative Reasoning B	3
Liberal Studies or General Elective course work		5 Liberal Studies or General Elective course work	11
	<b>15</b>		<b>14</b>

#### Junior

Fall	Credits	Spring	Credits
CURRIC 550		3 RP & SE 455	3
CURRIC 663 <sup>1</sup>		3 RP & SE 464	3
HDFS 362 or ED PSYCH 320 (362 is preferred) <sup>1</sup>		3 RP & SE 473	3
RP & SE 320		3 RP & SE 475	3
RP & SE 435 <sup>1</sup>		3 RP & SE 510 <sup>1</sup>	3
RP & SE 465 (also meets Communication B)		3	
	<b>18</b>		<b>15</b>

#### Senior

Fall	Credits	Spring	Credits
HDFS 663		3 RP & SE 467	2
RP & SE 460		3 RP & SE 477	10
RP & SE 466		3	
RP & SE 475		4	
Select one <sup>1</sup>		3	
ED POL 300			

ED POL/ HISTORY 412 (also meets U.S./European history)		
RP & SE 605		
	<b>16</b>	<b>12</b>

**Total Credits 120**

1

May be taken prior to scheduled semester, including prior to program admission. A minimum of 120 credits is still required to complete the degree.

## SPECIAL EDUCATION: EARLY CHILDHOOD SPECIAL EDUCATION/ SPECIAL EDUCATION DUAL CERTIFICATION BIRTH- GRADE 12, BSE

### REQUIREMENTS

The Early Childhood Special Education (ECSE)/Special Education K-12 Dual Certification option will prepare students to work as educators and early interventionists for children with disabilities from birth through grade 12.

### PREREQUISITE FOR PROGRAM ADMISSION

This course must be completed by the end of the summer of the application year and is calculated into the major gpa required for graduation.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

### ECSE/SPECIAL EDUCATION PROFESSIONAL SEQUENCE

Students complete a four-semester sequence of professional courses after admission to the program. Although some courses may be completed prior to program admission, the remaining professional methods courses and clinical (field) experiences must be followed sequentially and taken in consecutive semesters unless a modification is approved. Class schedules for the professional sequence courses are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
CURRIC 663	Learning Environments for Initial Education Programs <sup>1</sup>	3
HDFS 262	Development of the Young Child (preferred) <sup>1</sup>	3
	or ED PSYCH 320 Human Development in Infancy and Childhood	

RP & SE 320	Introduction to Teaching in Special Education	3
RP & SE 435	Overview of Early Childhood Special Education <sup>1</sup>	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities (also meets Communication B)	3

**Semester 2**

RP & SE/ CURRIC 365	Teaching Mathematics in Inclusive Settings	3
RP & SE 455	Early Childhood Special Education Methods: Inclusive Strategies for Infants and Toddlers	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 472	Methods in Transition and Vocational Education	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	3
RP & SE 510	Partnering with Families and Other Professionals in Early Childhood Special Education <sup>1</sup>	3

**Semester 3**

HDFS 663	Developmental and Family Assessment	3
RP & SE 460	Early Childhood Special Education Methods: Inclusive Strategies for Preschool and Early Elementary	3
RP & SE 466	Diversity in Special Education	3
RP & SE 476	Special Education Practicum: Secondary (Grades 4-12)	3
RP & SE 515	Access to the General Curriculum for Students with Disabilities	3
<i>Select one</i> <sup>1</sup>		3

ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education (also meets U.S./European history)	
RP & SE 605	Development, Learning and Education Foundations in Special Education	

**Semester 4**

RP & SE 467	Elementary Student Teaching Seminar	2
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	10

1

May be completed prior to scheduled semester, including prior to program admission.

## FOUR-YEAR PLAN

### Special Education Sample Four-Year Plan

**Early Childhood Special Education/  
Special Education Dual Certification Option**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
RP & SE 300	3	Ethnic Studies	3
Liberal Studies course work	9-12	Quantitative Reasoning A work	3
		Liberal Studies course work	3-6
<b>15</b>		<b>12</b>	

**Sophomore**

Fall	Credits	Spring	Credits
Liberal Studies course work	10	Quantitative Reasoning B	3
General Elective course work	2	Liberal Studies course work	3
		General Elective course work	6
<b>12</b>		<b>12</b>	

**Junior**

Fall	Credits	Spring	Credits
CURRIC 550	3	RP & SE/CURRIC 365	3
CURRIC 663 <sup>1</sup>	3	RP & SE 455	3
HDFS 362 or ED PSYCH 320 (362 is preferred) <sup>1</sup>	3	RP & SE 464	3
RP & SE 320	3	RP & SE 472	3
RP & SE 435 <sup>1</sup>	3	RP & SE 475	3
RP & SE 465 (also meets Communication B)	3	RP & SE 510 <sup>1</sup>	3
<b>18</b>		<b>18</b>	

**Senior**

Fall	Credits	Spring	Credits
HDFS 663	3	RP & SE 467	2
RP & SE 460	3	RP & SE 473	3
RP & SE 466	3	RP & SE 477	10
RP & SE 476	3		
RP & SE 515	3		
Select one <sup>1</sup>	3		
ED POL 300			
ED POL/ HISTORY 412 (also meets U.S./European history)			

RP & SE 605

18

15

**Total Credits 120**

1

May be taken prior to scheduled semester, including prior to program admission. A minimum of 120 credits is still required to complete the degree.

**SPECIAL EDUCATION:  
KINDERGARTEN -  
9TH GRADE/SPECIAL  
EDUCATION KINDERGARTEN  
- 12TH GRADE DUAL  
CERTIFICATION, BSE**

**REQUIREMENTS**

The Elementary Education Kindergarten - 9th Grade/Special Education Kindergarten - 12th Grade option requires 70 credits of professional coursework in addition to other degree requirements. RP & SE 300 Individuals with Disabilities must also be completed prior to beginning the professional sequence.

The option coursework listed here is one component of the Elementary Education, BSE degree (<https://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-education-bse/#requirementstext>) requirements.

**INDIVIDUALS WITH DISABILITIES -  
PREREQUISITE FOR PROGRAM ADMISSION**

This course must be completed by the end of the summer of the application year, before beginning the professional course sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

**PROFESSIONAL SEQUENCE**

The professional coursework was designed to be completed in four semesters, starting in the fall after admission to the program. Each semester of the sequence must be followed sequentially and taken in consecutive semesters unless a modification is approved. Most classes must be taken during specified semesters, while other requirements may be completed prior to beginning the sequence.

Code	Title	Credits
<b>Semester 1 (Fall)</b>		
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1 <sup>1</sup>	3
RP & SE 330	Behavior Analysis: Applications to Persons with Disabilities <sup>1</sup>	3
CURRIC/ RP & SE 406	Race, Intersectionality, and Equity in Education <sup>1</sup>	3

RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
CURRIC 550	Methods, Materials and Activities in Early Childhood Education	3
RP & SE 605	Development, Learning and Education Foundations in Special Education <sup>1</sup>	3

Semester 2 (Spring)		
CURRIC 318	Teaching Reading and Writing	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2 <sup>1</sup>	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 472	Methods in Transition and Vocational Education	3
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 476	Special Education Practicum: Secondary (Grades 4-12)	3

Semester 3 (Fall)		
RP & SE/ CURRIC 365	Teaching Mathematics in Inclusive Settings	3
CURRIC 371	Teaching Social Studies	3
CURRIC 372	Teaching Science	3
RP & SE 466	Diversity in Special Education	3
RP & SE 515	Access to the General Curriculum for Students with Disabilities	3
CURRIC 373	Elementary Teaching Practicum III	3

Semester 4 (Spring)		
CURRIC 463	Seminar in Elementary Education	1
CURRIC 464	Student Teaching in the Elementary School	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	7

<sup>1</sup> May be taken before semester 1 of the professional sequence, including prior to program admission. A minimum of 120 credits is still required to complete the degree.

### CONTENT AREA MINOR (OPTIONAL REQUIREMENT)

Students may elect to complete a minor in one of the following content areas. Minors provide a depth of study in a particular area of interest and also inform classroom instruction. Upon completion, the minor will be posted on the UW-Madison transcript, **but students will not receive an additional certification in the subject area.** The Wisconsin Department of Public Instruction no longer offers content licenses in association with the K-9 educator license.

The completion of a minor is required to teach middle school licensing in some states and may benefit students particularly interested in teaching at this level. See the links below for the requirements of each minor.

#### Minor Options

- Biology (p. 1614)
- Chemistry (p. 1616)
- Earth Science (p. 1623)
- Economics (p. 1624)
- English (p. 1649)
- English Language Arts (p. 1646)
- Geography (p. 1650)
- History (p. 1653)
- Mathematics (p. 1660)
- Mathematics and Science Dual (p. 1658)
- Mathematics Specialized (p. 1660)
- Physics (p. 1661)
- Political Science (p. 1662)
- Psychology (p. 1666)
- Science Specialized (p. 1666)
- Social Studies (p. 1667)
- Sociology (p. 1676)

## FOUR-YEAR PLAN

### Special Education

#### Kindergarten - 9th Grade/Special Education K-12 Dual Certification

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report and Course Search and Enroll to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

#### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
Liberal Studies course work	9-12	Quantitative Reasoning A	3
		RP & SE 300	3
		Liberal Studies course work	5-8
	<b>12</b>		<b>14</b>

#### Sophomore

Fall	Credits	Spring	Credits
Quantitative Reasoning B	3	Liberal Studies course work	7
Ethnic Studies	3	Liberal Studies or General Elective course work	5

Liberal Studies course work	6		
	<b>12</b>		<b>12</b>

**Junior**

Fall	Credits	Spring	Credits
CURRIC 319 <sup>1</sup>	3	CURRIC 318 (Also meets Communication B)	3
RP & SE 330 <sup>1</sup>	3	CURRIC 320 <sup>1</sup>	3
CURRIC/RP & SE 406 <sup>1</sup>	3	RP & SE 464	3
RP & SE 465	3	RP & SE 472	3
CURRIC 550	3	RP & SE 473	3
RP & SE 605 <sup>1</sup>	3	RP & SE 476	3
	<b>18</b>		<b>18</b>

**Senior**

Fall	Credits	Spring	Credits
RP & SE/CURRIC 365	3	CURRIC 463	1
CURRIC 371	3	CURRIC 464	7
CURRIC 372	3	RP & SE 457	1
RP & SE 466	3	RP & SE 477	7
RP & SE 515	3		
CURRIC 373	3		
	<b>18</b>		<b>16</b>

**Total Credits 120**

1

May be taken before semester 1 of the professional sequence, including prior to program admission.  
A minimum of 120 credits is still required to complete the degree.

# SPECIAL EDUCATION: MIDDLE CHILDHOOD THROUGH EARLY ADOLESCENCE/ ELEMENTARY EDUCATION DUAL CERT, BSE

**Admissions to the Special Education: Middle Childhood through Early Adolescence/Elementary Education Dual Cert, BSE have been suspended as of fall 2023 and will be discontinued as of fall 2024. If you have any questions, please contact the department.**

## REQUIREMENTS

The Middle Childhood–Early Adolescence/Dual Elementary and Special Education option prepares teachers to work in intermediate and middle school settings (approximately ages 6 through 12–13). Students are certified in both Special Education and Elementary Education at the Middle Childhood–Early Adolescence levels. Admitted students begin the four-semester professional sequence in the fall following admission.

The option coursework listed here is one component of the Elementary/ Special Education, BSE degree (p. 1627) requirements.

### RP & SE 300 Individuals with Disabilities—Admission Prerequisite

This course must be completed prior to beginning the professional sequence.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

### Environmental Education Requirement

Select one Environmental Studies ([http://guide.wisc.edu/courses/envir\\_st/](http://guide.wisc.edu/courses/envir_st/)) course or from the following list. If appropriate, this course may also be applied toward the liberal studies requirements.

### Environmental Education courses

Code	Title	Credits
ATM OCN/ SOIL SCI 132	Earth's Water: Natural Science and Human Use	3
BOTANY 100	Survey of Botany	3
BOTANY/ PL PATH 123	Plants, Parasites, and People	3
BOTANY/BIOLOGY/ ZOOLOGY 152	Introductory Biology	5
BOTANY 240	Plants and Humans	3
BOTANY/ENVIR ST/ ZOOLOGY 260	Introductory Ecology	3
CURRIC/C&E SOC/ ENVIR ST 405	Education for Sustainable Communities	3
ECON/A A E/ ENVIR ST 343	Environmental Economics	3-4
F&W ECOL 110	Living with Wildlife - Animals, Habitats, and Human Interactions	3
GEOG/ ENVIR ST 120	Introduction to the Earth System	3
GEOG/ENVIR ST 127	Physical Systems of the Environment	5
GEOG/ ENVIR ST 139	Global Environmental Issues	3
GEOG/ ENVIR ST 309	People, Land and Food: Comparative Study of Agriculture Systems	3
GEOG/ ENVIR ST 339	Environmental Conservation	4
LAND ARC/ ENVIR ST 361	Wetlands Ecology	3
PHYSICS 115	Energy and Climate	3
POP HLTH/ ENVIR ST 502	Air Pollution and Human Health	3
SOC/C&E SOC 140	Introduction to Community and Environmental Sociology	4
SOC/C&E SOC/ F&W ECOL 248	Environment, Natural Resources, and Society	3
SOIL SCI 301	General Soil Science	3
SOIL SCI/ ENVIR ST 324	Soils and Environmental Quality	3

### Mathematics for Elementary Teachers

Code	Title	Credits
CURRIC 319	Pedagogical Content Knowledge for Teaching Elementary Mathematics 1	3
CURRIC 320	Pedagogical Content Knowledge for Teaching Elementary Mathematics 2	3

1

Students with college-level calculus coursework or advanced placement credit should see the exemption rules (<http://www.math.wisc.edu/~lempp/Exemptionsfor130-32.htm>) for this coursework. More detailed information (<http://www.math.wisc.edu/~lempp/educ.html>) about these courses is available on the math department website.

### Education Coursework

Code	Title	Credits
<b>Child and Adolescent Development</b>		<b>3-6</b>

Select one:

ED PSYCH 331	Human Development From Childhood Through Adolescence	
ED PSYCH 320 & ED PSYCH 321	Human Development in Infancy and Childhood and Human Development in Adolescence <sup>1</sup>	

#### Learning

ED PSYCH 301	How People Learn	3
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#### Foundations of the Profession

Select one:

ED POL 300	School and Society	
ED POL/ HISTORY 412	History of American Education	

1

With permission, PSYCH 460 Child Development (formerly 560) may be substituted for ED PSYCH 320 Human Development in Infancy and Childhood. Students are strongly encouraged to complete this requirement before program admission.

### Professional Sequence

Admitted students complete a four-semester sequence of professional courses beginning in the fall semester after program admission. Each semester of the sequence must be followed sequentially and taken in consecutive semesters.

Code	Title	Credits
<b>Semester 1</b>		
CURRIC 364	Introduction to Education	3
CURRIC 368	The Teaching of Reading	3
CURRIC 369	The Teaching of Language Arts	3
CURRIC 367	Elementary Education Practicum II	3
RP & SE 466	Diversity in Special Education	3
<b>Semester 2</b>		
RP & SE 473	Classroom Management for Inclusive Classrooms	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	3-6

RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
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#### Semester 3

RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
CURRIC 372	Teaching Science	3
CURRIC/ RP & SE 365	Teaching Mathematics in Inclusive Settings	3
CURRIC 371	Teaching Social Studies	3
CURRIC 373	Elementary Teaching Practicum III	3

#### Semester 4

RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	7
RP & SE 457	Elementary Student Teaching Seminar - Elementary/Special Education Dual Major	1
CURRIC 464	Student Teaching in the Elementary School	7
CURRIC 463	Seminar in Elementary Education	1

## FOUR-YEAR PLAN

# SPECIAL EDUCATION: SPECIAL EDUCATION CROSS CATEGORICAL K-12, BSE

## REQUIREMENTS

Students in the Special Education Cross Categorical K-12 option will seek licensure to work with students in elementary and secondary schools (kindergarten through grade 12.) Admitted students begin a four-semester professional sequence in the fall following admission.

The option coursework listed here is one component of the Special Education, BSE degree (<https://guide.wisc.edu/undergraduate/education/rehabilitation-psychology-special-education/special-education-bse/>) requirements.

## PROFESSIONAL EDUCATION REQUIREMENTS

### Individuals with Disabilities

This course is a prerequisite for admission to the Special Education program. It must be completed by the end of the summer of the application year.

Code	Title	Credits
RP & SE 300	Individuals with Disabilities	3

### Development (Minimum of 3 credits)

May be taken prior to program admission.

Code	Title	Credits
Select one of the following options:		
Option 1		3
ED PSYCH 331	Human Development From Childhood Through Adolescence (Recommended for all certification levels)	
Option 2		5-6
ED PSYCH 320	Human Development in Infancy and Childhood <sup>1</sup>	
or PSYCH 460	Child Development	
ED PSYCH 321	Human Development in Adolescence	

**Learning (Minimum of 3 credits)**

May be taken prior to program admission.

Code	Title	Credits
ED PSYCH 301	How People Learn	3

**Foundations of the Profession (Minimum of 3 credits)**

May be taken prior to program admission

Code	Title	Credits
Select one of the following:		
ED POL 300	School and Society	3
ED POL/ HISTORY 412	History of American Education	

**CORE REQUIREMENTS (INCLUDES PROFESSIONAL SEQUENCE)**

RP & SE 300 Individuals with Disabilities is a prerequisite for admission to the Special Education program. This course must be completed by the end of the summer of the application year and is calculated into the major gpa required for graduation.

**SPECIAL EDUCATION PROFESSIONAL SEQUENCE**

Students complete a four-semester sequence of professional courses after admission to the program. The professional methods courses and clinical (field) experiences must be followed sequentially and taken in consecutive semesters unless a modification is approved. Class schedules for the professional sequence courses are determined in advance.

Code	Title	Credits
<b>Semester 1</b>		
RP & SE 320	Introduction to Teaching in Special Education	3
RP & SE 435	Overview of Early Childhood Special Education	3
RP & SE 465	Language and Reading Instruction for Students with Disabilities (Meets Communication B requirement)	3
RP & SE/ CURRIC 506	Strategies for Inclusive Schooling	3
Choose 1: (minimum of 3 credits)		

Option 1		
ED PSYCH 331	Human Development From Childhood Through Adolescence	
Option 2		
ED PSYCH 321	Human Development in Adolescence	
or PSYCH 460	Child Development	
Option 3		
ED PSYCH 320	Human Development in Infancy and Childhood	
or ED PSYCH 321	Human Development in Adolescence	

**Semester 2**

RP & SE/CURRIC 365	Teaching Mathematics in Inclusive Settings	3
RP & SE 476	Special Education Practicum: Secondary (Grades 4-12)	3
RP & SE 464	Diagnosis, Assessment, and Instructional Planning in Special Education	3
RP & SE 473	Classroom Management for Inclusive Classrooms	3

**Semester 3**

RP & SE 466	Diversity in Special Education <sup>1</sup>	3
RP & SE 475	Special Education Practicum: Early Childhood and Elementary	3
RP & SE 515	Access to the General Curriculum for Students with Disabilities	3
ED PSYCH 301	How People Learn	3

Choose 1:

ED POL 300	School and Society	
or ED POL/ HISTORY 412	History of American Education	

**Semester 4**

RP & SE 472	Methods in Transition and Vocational Education	3
RP & SE 477	Special Education Student Teaching: Elementary (PK - Grade 9)	10
or RP & SE 478	Special Education Student Teaching: Secondary (Grades 4-12)	
RP & SE 467	Elementary Student Teaching Seminar	2
or RP & SE 468	Secondary Student Teaching Seminar	

<sup>1</sup>

Course may be taken prior to scheduled semester, including prior to program admission.

**FOUR-YEAR PLAN**

**Special Education: Special Education Cross Categorical K-12 option**

**Sample Four-Year Plan**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your



placement scores, incoming credits, and individual interests. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements.

If you are interested in completing a study abroad semester, please meet with Kayla Armstrong prior to starting the professional sequence and review the study abroad section of the planning document (<https://uwmadison.box.com/s/kcids3uopuacgj5c2qtc8qke6ii6ods8/>). Study abroad semesters are usually completed during the fall semester of a student's senior year.

**Freshman**

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
RP & SE 300	3	Ethnic Studies	3
Liberal Studies course work	9-12	Quantitative Reasoning A work	3
		Liberal Studies course work	6-9
<b>15</b>		<b>15</b>	

**Sophomore**

Fall	Credits	Spring	Credits
ED POL/HISTORY 412	3	Quantitative Reasoning B	3
ED PSYCH 301	3	ED PSYCH 331	3
Liberal Studies course work	9	Liberal Studies or General Elective course work	9
<b>15</b>		<b>15</b>	

**Junior**

Fall	Credits	Spring	Credits
RP & SE 320	3	RP & SE/CURRIC 365	3
RP & SE 435	3	RP & SE 476	3
RP & SE 465	3	RP & SE 464	3
RP & SE/CURRIC 506	3	RP & SE 473	3
Liberal Studies or General Elective course work	6		
<b>18</b>		<b>12</b>	

**Senior**

Fall	Credits	Spring	Credits
RP & SE 466	3	RP & SE 472	3
RP & SE 475	3	RP & SE 477 or 478	10
RP & SE 515	3	RP & SE 467 or 468	2
Liberal Studies or General Elective course work	6		
<b>15</b>		<b>15</b>	

**Total Credits 120**

1

Course may be taken prior to scheduled semester, including prior to program admission. A minimum of 120 credits is required to complete the degree.

## THEATRE AND DRAMA

A degree in Theatre and Drama from the University of Wisconsin–Madison opens doors to a wide range of careers. Our alumni are successful in theatre, film, television, gaming, production management, development, design, education, and all aspects of the entertainment industry. Our faculty are active theatre professionals who bring current and practical knowledge into the classrooms and productions. Our department is well known for the individual attention, mentoring, and commitment we give our students.

Through mainstage, open-stage, and student-produced works, the Department of Theatre and Drama provides students with excellent opportunities to apply the skills and techniques learned in the classroom within fully staged productions.

Theatre and Drama majors will complete a Bachelor of Science degree in Theatre and Drama (p. 1779) through the School of Education. Majors may informally select areas of emphasis such as design, stage management, directing, acting, or theatre technology. Students whose primary interest is acting may pursue the Acting Option (p. 1783). An audition is required prior to acceptance to the Acting Option, and is held each semester. Students should see the department advisor for more information on the Acting Option.

Non-majors who wish to extend their familiarity with theatre in theory and practice are encouraged to enroll in department courses and participate in productions. The Certificate in Theatre (p. 1785) allows students from across campus, regardless of their major or degree program, to engage in a structured, meaningful theatre-related experience. The department has hosted students from many disciplines—such as law, business, medicine, art, dance, science, and social work—who wish to develop effective communication skills, enhance problem-solving abilities, and cultivate visual acumen.

## DEGREES/MAJORS/CERTIFICATES

- Theatre and Drama, B.S. (p. 1777)
- Theatre, Certificate (p. 1785)

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Theatre and Drama can be found on the department's website (<http://theatre.wisc.edu/>).

## THEATRE AND DRAMA, B.S.

A degree in Theatre and Drama from the University of Wisconsin–Madison opens doors to a wide range of careers. Our alumni are successful in theatre, film, television, gaming, production management, development, design, education, and all aspects of the entertainment industry. Our faculty are active theatre professionals who bring current and practical

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## HOW TO GET IN

### PROGRAM ADMISSION OVERVIEW

The Theatre and Drama major may be completed either as the primary major or as an additional ("double") major.

#### PRIMARY MAJOR IN THEATRE AND DRAMA

Undergraduate students interested in completing the Bachelor of Science–Theatre and Drama degree program will fulfill the School of Education's liberal studies and other degree requirements in addition to the 43 credits required for the Theatre and Drama major.

#### ADDITIONAL MAJOR IN THEATRE AND DRAMA

Undergraduate students from all schools and colleges on campus (including the School of Education) may declare Theatre and Drama as an additional major. Students completing Theatre and Drama as an additional major do not need to complete the School of Education's liberal studies and other degree requirements. For application information, go directly to the Additional Major in Theatre and Drama (p. 1779) section below.

### ENTERING THE SCHOOL OF EDUCATION

#### NEW AND CURRENT UW–MADISON STUDENTS

**Incoming freshmen** enter directly into the Bachelor of Science–Theatre and Drama degree program upon admission to UW–Madison; list Theatre and Drama as the intended major. No additional application to Theatre and Drama is required.

See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

**All other on-campus students** will submit an application following a meeting with the department's academic advisor.

### PROSPECTIVE TRANSFER STUDENTS

Transfer students must be admissible to the university to enroll in a School of Education degree program. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information. Transfer students enter directly into the Bachelor of Science–Theatre and Drama degree program upon admission to UW–Madison; list Theatre and Drama as the intended major. No additional application to Theatre and Drama is required. Prospective transfer students are strongly encouraged to meet with the Department of Theatre and Drama academic advisor before coming to campus. Coursework taken at another institution may need to be evaluated by the department academic advisor or a faculty member in the Department of Theatre and Drama. Prospective transfer students are also strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

### STUDENTS WITH A PREVIOUS DEGREE

Prospective students who already hold an undergraduate degree must be admissible to the university to enroll in a School of Education degree program. See UW–Madison Office of Admissions and Recruitment (<http://admissions.wisc.edu/>) for application information.

Applicants must also meet the following criteria for admission as a second undergraduate degree candidate in the School of Education. Candidates must:

- be seeking a new major that is substantially different from their previous degree work;
- need to complete at least 15 upper-level credits in the new major;
- need to complete at least 30 credits beyond their previous coursework.

When admitted, second degree candidates enter directly into the Bachelor of Science–Theatre and Drama degree program. No additional application to Theatre and Drama is required.

Prospective students who already hold an undergraduate degree are strongly encouraged to meet with the Department of Theatre and Drama academic advisor before coming to campus. Coursework taken at another institution may need to be evaluated by the department academic advisor or a faculty member in the Department of Theatre and Drama. Prospective second degree candidates are also strongly advised to meet with an advisor in the School of Education Student Services office in advance of their application; to schedule, call 608-262-1651.

### APPLICATION AND ADMISSION

While new freshmen and off-campus transfers are admitted directly to the B.S.–Theatre and Drama degree program, all other current UW–Madison students seeking to enter the B.S.–Theatre and Drama program

must apply for admission to the program. Students must make an appointment with the departmental advisor to complete the declaration form. Requirements and selection criteria may be modified from one application/admission period to the next.

## CRITERIA FOR ADMISSION

Eligibility for admission consideration to B.S.–Theatre and Drama:

- Cumulative grade-point average on all transferable college-level coursework of at least a 2.50 (on a 4.00 scale).<sup>1</sup>
- Cumulative grade point average of at least a 2.5 based on UW–Madison campus coursework, as modified by the Last 60 Credits Rule (detailed below).
- Submission of all required application materials, including program application and transcripts.

1

A comprehensive cumulative GPA of all college-level, transferrable coursework attempted on both the UW–Madison campus coursework and coursework taken at any other colleges or universities may be calculated for the exclusive purpose of establishing an applicant's eligibility for consideration. Both the comprehensive cumulative GPA and the comprehensive cumulative GPA based on a student's last 60 credits may be calculated. See Last 60 Credits Rule (detailed below). If admitted, students must earn the minimum cumulative GPA for UW–Madison coursework established by their program and the School of Education each semester after admission.

### Last 60 Credits Rule

Two grade point averages will be calculated to determine candidates' eligibility to programs. GPAs will be calculated using

- all transferable college level coursework attempted, and
- the last 60 credits attempted.

The higher GPA of these two will be used for purposes of determining eligibility. If fewer than 60 credits have been attempted, all credits will be used to calculate the GPA. Graded graduate coursework will also be used in all GPA calculations. ("Attempted" coursework indicates coursework for which a grade has been earned.) More information on this rule is available here (p. 1545).

## ADDITIONAL MAJOR IN THEATRE & DRAMA

Undergraduate students from all schools and colleges on campus (including Education) may declare Theatre and Drama as an additional major. Students wishing to declare the additional major must make an appointment with the departmental advisor to complete the declaration form. The declaration must also be approved by the student's home school/college.

Please note that the requirements of the additional major must be completed before or concurrently with the degree program and primary major.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF EDUCATION LIBERAL STUDIES REQUIREMENTS

All students are required to complete a minimum of 40 credits of Liberal Studies (p. 1554) coursework. This requirement provides an opportunity to do some academic exploration beyond the scope of the major. Students take courses in areas of particular interest and also have an opportunity to sample the wide selection of courses offered across the university. Coursework is required in humanities, social studies, science, and cultural and historical studies. Some elective coursework is also needed to reach the required number of credits.

#### The School of Education's Liberal Studies

**Requirements automatically satisfy most of the University General Education Requirements outlined above, including ethnic studies, humanities/literature, social studies, and science.** Students pursuing most School of Education degree programs may also complete Communication Part B, Quantitative Reasoning Part A, and Quantitative Reasoning Part B through courses required by their degree program. If a student cannot complete a General Education Requirement within the curriculum of their chosen School of Education program, academic advisors can offer suggestions for courses that meet the requirement and augment the student's primary area of study.

A basic outline of the liberal studies is included below. Students must consult the detailed version of the requirements (p. 1554) for information about course selection and approved course options.

**Humanities, 9 credits**

All students must complete a minimum of 9 credits to include:

- Literature
- Fine Arts
- Humanities Electives

**Social Studies (Social Science)**

All students must complete a minimum of 9 credits. Teacher certification programs and Kinesiology have unique requirements in this category.

**Science**

All students must complete a minimum of 9 credits to include:

- Biological Science
- Physical Science
- Laboratory Science
- Science Electives

**Cultural and Historical Studies**

All students must complete three requirements (9 credits) met by separate courses. Any of these courses can also be used to meet the Humanities or Social Studies (Social Sciences) requirements if it has the relevant breadth designation.

- Ethnic Studies
- U.S./European History
- Global Perspectives

**Complete** Liberal Studies Electives (p. 1554) **to total 40 Credits.**

**PROGRAM STRUCTURE**

The Bachelor of Science (B.S.) degree program in Theatre and Drama has three primary components:

- *Liberal studies* courses expose students to a broad range of academic disciplines. The university-wide *General Education* requirements also encourage this breadth of study.
- *Major requirements* permit in-depth studies of theatre and drama.
- *Additional electives* to reach the minimum of 120 degree credits. These credits allow students to pursue individual areas of interest, such as a second major or additional theatre and drama credits. Many B.S.–Theatre and Drama students complete an additional major from the College of Letters & Science. Some use this major to complement their theatre preparation, while others select majors that reflect interests completely unrelated to theatre.

**MAJOR REQUIREMENTS**

Effective Fall, 2018

Complete a minimum of 43 credits. At least 15 credits of upper-level major coursework (courses designated intermediate or advanced, and/or courses at the 300 level or above) must be taken in residence with a minimum 2.5 grade point average.

Code	Title	Credits
THEATRE/ENGL 120	Introduction to Theatre and Dramatic Literature <sup>1</sup>	3–4
THEATRE 130	Fundamentals of Theatrical Design	3
THEATRE 140	Voice 1: Effective Communication	3

THEATRE 150	Acting I: Introduction to Acting	3
THEATRE 160	Technical Theatre Fundamentals	3
THEATRE 162	Backstage Experience	1
THEATRE 220	Scenic Studio Practicum	1
THEATRE 221	Costume Studio Practicum	1
THEATRE 222	Lighting & Sound Studio Practicum	1
THEATRE 234	Collaborative Problem Solving	3
THEATRE 260	Producing Theatre	3
THEATRE 357	Introduction to Theatre for Cultural and Social Awareness <sup>3</sup>	3
THEATRE 367	Script Analysis	3
Choose one of the following:		3
THEATRE 327	History of Costume for the Stage	
THEATRE 431	History of Theatres and Staging	
THEATRE 526	The Theatres of China and Japan	
THEATRE 631	Theories of Acting	

Required Electives - Complete a minimum of 9 credits; 6 credits must be at the 300 level or above. Practicum courses do not count as elective credit. 9

1

The 4-credit option of ENGL/THEATRE 120 Introduction to Theatre and Dramatic Literature satisfies the General Education Communication Part B requirement.

2

Or approved substitute.

3

Also meets ethnic studies requirement.

**Electives**

Select any Theatre and Drama (<http://guide.wisc.edu/courses/theatre/>) department courses to total 43 credits. Majors are urged to consult the department academic advisor in selecting courses, especially when building an emphasis in any one area.

**REQUIREMENTS FOR THE ACTING OPTION**

View as listView as grid

- THEATRE AND DRAMA: ACTING (P. 1783)

**HONORS IN THE MAJOR**

Students completing the requirements for Honors in the Major engage in valuable preparation for graduate and professional training and learn worthwhile skills that will benefit them in the workplace.

Those students interested in earning Honors in Theatre and Drama should declare their intention to graduate with Honors in the Major at the end of their sophomore year or the beginning of their junior year. The department advisor must be consulted to determine the best way to fulfill the honors requirements and how to make the most out of the experience.

Honors in Theatre and Drama is earned by satisfying both the requirements for the major and these additional requirements:

- Maintain a minimum GPA of 3.5 in major courses and an overall GPA of at least 3.3 in all courses taken at UW–Madison at the time of graduation.
- Complete one of the following courses:

Code	Title	Credits
THEATRE 500	The Business of the Business	3
THEATRE 501	The Business of Acting	3
M H R 320	New Ventures in Business, the Arts and Social Entrepreneurship	3

- Complete the following two-semester senior honors thesis for a total of six credits. Students must procure a mentor to supervise these two courses and their honors thesis project. This thesis may be a written research thesis, an original work of art, a performance, or other project determined by the student and his/her mentor. All senior honors theses will culminate in an open presentation of their work.

Code	Title	Credits
THEATRE 681	Senior Honors Thesis	3
THEATRE 682	Senior Honors Thesis	3

Students should be aware that some courses are not offered on a regular basis (some are offered every other year, some based on student enrollment in the department, and some based on current staffing.). Please contact the department advisor for information on specific courses and course equivalence.

## GPA AND OTHER GRADUATION REQUIREMENTS

Based on UW–Madison coursework.

- 2.5 minimum cumulative grade point average. This may be modified by the Last 60 Credits Rule.
- 2.5 cumulative major grade point average.
- 2.5 cumulative grade point average in all upper-level major coursework. Upper-level coursework is defined as all intermediate and advanced coursework, and/or at the 300 level or above.
- Major Residency: Students must complete a minimum of 15 credits of upper-level coursework in the major in residence on the UW–Madison campus. Upper-level coursework is defined as all intermediate and advanced coursework, and/or at the 300 level or above.
- Senior Residency: Degree candidates must complete their last 30 credits in residence on the UW–Madison campus, excluding retroactive credits and credits granted by examination.
- Total credits: A minimum of 120 credits are required for graduation in the B.S.–Theatre and Drama degree program.

## DEGREE AUDIT REPORTING SYSTEM (DARS)

UW–Madison uses “DARS” to document a student’s progress toward the completion of their degree, including any additional majors and certificates. A DARS (Degree Audit Reporting System) report shows all the requirements for completing a degree and, against courses that are planned or completed, shows the requirements that have been met, and those that are unmet. A report can offer suggestions about courses that may be taken to meet specific requirements and can assist in the

academic planning and enrollment process. Students can access a DARS report in the Course Search & Enroll app or Student Center via My UW.

DARS also has a “what-if” function. This feature makes it possible to request a DARS report as if pursuing another program, major or certificate. It is an excellent tool if considering a new or additional area of study. School of Education students in a pre-professional classification such as Pre-Elementary (PRE), or Pre-Kinesiology should request a “what if” DARS report of their professional program of interest.

More information on how to request a DARS report is available on the registrar’s website (<https://registrar.wisc.edu/dars-student/>).

DARS is not intended to replace student contact with academic advisers. It creates more time in an advising appointment to discuss course options, research opportunities, graduate school, or issues of personal interest or concern to students.

DARS is used as the document of record for degree program, major and certificate completion in the School of Education.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor’s degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. “In residence” means on the UW–Madison campus with an undergraduate degree classification. “In residence” credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Demonstrate the ability to evaluate the art and craft of theatre both critically and conceptually.
2. Demonstrate the ability to interpret and analyze a script as an integral part of the theatrical process.
3. Demonstrate knowledge of theatrical history and literature.
4. Demonstrate competence in effective communication through vocal dynamics, movement, and the sharing of ideas.
5. Demonstrate the ability to problem-solve creatively and generously collaborate as theatre artists.

## FOUR-YEAR PLAN

**Theatre and Drama: Sample Four-Year Plan**

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

### Freshman

Fall	Credits	Spring	Credits
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
THEATRE 130	3	THEATRE 140	3
THEATRE 150	3	THEATRE 160	3
Liberal Studies course work	6-9	THEATRE 162	1
		Quantitative Reasoning A	3
		Liberal Studies course work	2-5
	<b>15</b>		<b>15</b>

### Sophomore

Fall	Credits	Spring	Credits
THEATRE/ENGL 120 <sup>1</sup>	3-4	THEATRE 221	1
THEATRE 220	1	THEATRE 222	1
THEATRE 367	3	THEATRE 234	3
Liberal Studies course work	7-8	Quantitative Reasoning B	3
		Liberal Studies or General Elective course work	7
	<b>15</b>		<b>15</b>

### Junior

Fall	Credits	Spring	Credits
THEATRE 357 (also meets ethnic studies)	3	THEATRE 260	3
Communication B <sup>1</sup>	3-4	Fall or spring semester take one of:	3
Fall or spring semester take one of:	3	THEATRE 327	
THEATRE 327		THEATRE 431	
THEATRE 431		THEATRE 526	
THEATRE 526		THEATRE 631	
THEATRE 631		Theatre Major Elective	3
Liberal Studies, Theatre or General Elective course work	5-9	Liberal Studies, Theatre or General Elective course work	6-9
	<b>15</b>		<b>15</b>

### Senior

Fall	Credits	Spring	Credits
Theatre Major Elective (upper level)	3	Theatre Major Elective (upper level)	3

Liberal Studies, Theatre or General Elective course work	12 Liberal Studies, Theatre or General Elective course work	12
	<b>15</b>	<b>15</b>

### Total Credits 120

1

THEATRE/ENGL 120 Introduction to Theatre and Dramatic Literature is a requirement of the Theatre and Drama major. The 4-credit option also satisfies the General Education Communication Part B requirement. If the 4-credit option is selected, it may not be available until after the sophomore year. Either the 3 or 4 credit option will meet the Theatre and Drama major requirement.

## ADVISING AND CAREERS

### THEATRE AND DRAMA DEPARTMENTAL ADVISING

Prospective off-campus and on-campus B.S.-Theatre and Drama students will meet with department academic advisor Jim Stauffer, Department of Theatre and Drama, 6004 Vilas Communications Hall, 821 University Ave, (main office) 608-263-2329, jbstaufer@wisc.edu. Students are also strongly encouraged to confer with an advisor in the School of Education Student Services office on a regular basis, see below.

### SCHOOL OF EDUCATION ADVISING ACADEMIC ADVISING IN THE SCHOOL OF EDUCATION

Dedicated to supporting and promoting student success, Academic Advisors (<https://education.wisc.edu/academics/undergrad-majors/academic-advising/>) are here to assist students with the adjustment to college, understanding their degree and career goals, and connecting them to resources. Advisors support prospective and current School of Education students in all programs through:

- course selection
- mentoring and advocacy for underrepresented and international students
- understanding degree requirements and progression
- interpreting academic policies
- helping students recognize their strengths and suggesting ways to expand their skills
- expanding learning through activities such as study abroad, volunteering/work/internship, and by assuming leadership roles

**To schedule an appointment:** Current students can schedule an appointment online through the Starfish app (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>) in MyUW. Appointments can also be made through email at [studentservices@education.wisc.edu](mailto:studentservices@education.wisc.edu), by calling 608-262-1651, or in person.

### CAREER ADVISING IN THE SCHOOL OF EDUCATION

The School of Education Career Center provides students with the knowledge needed for connecting their classroom experiences with real-world application to develop skills needed to navigate the ever-changing

world of work. Through individual appointments, events, courses, and online resources, the Career Center provides students and alumni with the tools needed to be successful in their career development.

Career and Internship Advisors are prepared to help students with:

- Exploration of career and academic pathways
- Resumes
- Cover letters
- Job/Internship search
- Interview preparation
- Mock interviews
- Graduate school search, applications and decisions
- Negotiating job or internship offers
- Professional networking
- Connecting with employers

Students are encouraged to meet with their Career and Internship Advisor early in their college experience to take full advantage of the resources and support available.

To make an appointment: log into Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) from the MyUW dashboard.

For more information, visit the School of Education Career Center website (<https://careercenter.education.wisc.edu/>) or reach out at [career-center@education.wisc.edu](mailto:career-center@education.wisc.edu).

**Potential careers for Theatre and Drama majors include:** theatrical or on-camera acting, stage management, design or technical production, directing, arts administration, youth theater education, or playwriting. Our graduates work in local, regional and national theaters, businesses, non-profits, community agencies, as well as many other fields.

Students develop important skills that employers look for including:

- Diverse forms of communication, personal expression and connection
- Collaboration
- Creative problem solving/critical thinking
- Advancing creative concepts into action
- Adaptability, versatility, and improvisation
- Resilience; ability to receive and provide feedback
- Dedication and attention to quality
- Time management and respect for deadlines

Applied experiences, including paid internships, apprenticeship programs, career treks, and professional networking events, are available to UW Theatre & Drama students.

## PEOPLE

Information about faculty, staff, and other contributors to the Department of Theatre and Drama can be found on the department's website. (<http://theatre.wisc.edu/>)

## RESOURCES AND SCHOLARSHIPS

Information about scholarships, academic and career advising, study abroad opportunities, student diversity services, and other resources

for students in the School of Education can be found on the school's Resources (p. 1567) page.

# THEATRE AND DRAMA: ACTING

## REQUIREMENTS

Theatre and Drama majors with a primary interest in acting may audition for the Acting Option. This highly-structured program of study offers students a deeper practical knowledge and experience of the skills required to pursue professional work as an actor and/or advanced studies in theatre. These students are highly mentored and will benefit from personalized performance reviews with the acting faculty at the end of each semester.

Admission is by audition only; auditions are announced at the midpoint of each semester. Students must have taken THEATRE 140 Voice 1: Effective Communication, THEATRE 150 Acting I: Introduction to Acting, THEATRE 367 Script Analysis and be enrolled in or have successfully completed THEATRE 250 Fundamentals of Acting before auditioning for the option. Students who qualify for the Acting Option are expected to audition for University Theatre productions and play as cast. This named option will be formally documented on the student's official transcript. The option coursework listed here is one component of the B.S. Theatre and Drama (<http://guide.wisc.edu/undergraduate/education/theatre-drama/theatre-drama-bs/#requirementstext>) degree requirements.

### Effective Spring, 2019

Complete a minimum of 45 credits to include the following:

Code	Title	Credits
<b>Required Courses</b>		
THEATRE 140	Voice 1: Effective Communication	3
THEATRE 240	Intermediate Voice Training	3
THEATRE 150	Acting I: Introduction to Acting	3
THEATRE 250	Fundamentals of Acting	3
THEATRE 350	Acting Realism	3
THEATRE 162	Backstage Experience	1
THEATRE/ENGL 120	Introduction to Theatre and Dramatic Literature	3
THEATRE 631	Theories of Acting	3
THEATRE 367	Script Analysis	3
THEATRE 342	Fundamentals of Movement for the Stage	3
<b>Choose four of the following:</b>		<b>12</b>
THEATRE 351	Fundamentals of Asian Stage Discipline	
THEATRE 357	Introduction to Theatre for Cultural and Social Awareness	
THEATRE 440	Musical Performance for the Actor	
THEATRE 541	Acting Shakespeare	
THEATRE 352	Auditioning for Stage and Screen	
THEATRE 368	Fundamentals of Directing	
THEATRE 451	Acting for the Camera	

THEATRE 501	The Business of Acting	
<b>Choose one of the following:</b>		<b>3</b>
THEATRE 130	Fundamentals of Theatrical Design	
THEATRE 160	Technical Theatre Fundamentals	
THEATRE 234	Collaborative Problem Solving	
THEATRE 260	Producing Theatre	
THEATRE 364	Makeup for the Theatre	
<b>Choose two of the following:</b>		<b>2</b>
THEATRE 220	Scenic Studio Practicum	
THEATRE 221	Costume Studio Practicum	
THEATRE 222	Lighting & Sound Studio Practicum	
THEATRE 360	Performance in Practice	

**If needed, additional Theatre courses to meet minimum of 45 credits**

## FOUR-YEAR PLAN

### Theatre and Drama Major: Acting Option

#### Sample Four-Year Plan

This four-year sample graduation plan is designed to guide your course selection throughout your academic career; it does not establish a contractual agreement. Use it along with your DARS report, the Guide, and the Course Search and Enroll app to create a four-year plan reflecting your placement scores, incoming credits, and individual interests. Consult with an academic advisor to develop a personalized plan of study and refer to the Guide for a complete list of requirements. You will likely revise your plan several times during your academic career here, based on your activities and changing academic interests.

Admission to the Acting Option is by audition only; auditions are announced at the midpoint of each semester. Students must have taken THEATRE 140 Voice 1: Effective Communication, THEATRE 150 Acting I: Introduction to Acting, THEATRE 367 Script Analysis, and be enrolled in or have successfully completed THEATRE 250 Fundamentals of Acting before auditioning for the option. Students who qualify for the Acting Option are expected to audition for University Theatre productions and play as cast.

Freshman			
Fall	Credits	Spring Credits	
Communication A (fall or spring semester)	3	Communication A (fall or spring semester)	3
THEATRE 140	3	Quantitative Reasoning A	3
THEATRE 367	3	THEATRE 150	3
Liberal Studies course work	6-9	One of the following:	3
		THEATRE 130	
		THEATRE 160	
		THEATRE 234	
		THEATRE 260	
		THEATRE 364	
		Liberal Studies course work	3-6
<b>15</b>		<b>15</b>	

Sophomore			
Fall	Credits	Spring	Credits
THEATRE/ENGL 120 <sup>1</sup>	3-4	THEATRE 240	3
THEATRE 250	3	THEATRE 350	3
THEATRE 342	3	THEATRE 162	1
Ethnic Studies	3	Quantitative Reasoning B	3
Liberal Studies course work	2-6	Liberal Studies, Theatre or General Elective course work	5
<b>15</b>		<b>15</b>	

Junior			
Fall	Credits	Spring	Credits
Communication B <sup>1</sup>	3-4	Two of the following:	6
One of the following:	3	THEATRE 351	
THEATRE 351		THEATRE 352	
THEATRE 352		THEATRE 357	
THEATRE 357		THEATRE 368	
THEATRE 368		THEATRE 440	
THEATRE 440		THEATRE 451	
THEATRE 451		THEATRE 501	
THEATRE 501		THEATRE 541	
THEATRE 541		Liberal Studies, Theatre or General Elective course work	9
THEATRE 631	3		
Liberal Studies, Theatre or General Elective course work	5-9		
<b>15</b>		<b>15</b>	

Senior			
Fall	Credits	Spring	Credits
One of the following:	3	Two of the following:	2-4
THEATRE 351		THEATRE 220	
THEATRE 352		THEATRE 221	
THEATRE 357		THEATRE 222	
THEATRE 368		THEATRE 360	
THEATRE 440		Liberal Studies, Theatre or General Elective course work	12-13
THEATRE 451			
THEATRE 501			
THEATRE 541			
Liberal Studies, Theatre or General Elective course work	12		
<b>15</b>		<b>15</b>	

**Total Credits 120**



1

THEATRE/ENGL 120 Introduction to Theatre and Dramatic Literature is a requirement of the Theatre and Drama major: Acting Option. The 4-credit option also satisfies the General Education Communication Part B requirement. If the 4-credit option is selected, it may not be available until after the sophomore year. Either the 3 or 4 credit option will meet the Theatre and Drama major requirement.

## THEATRE, CERTIFICATE

The Certificate in Theatre may be completed by any University of Wisconsin–Madison undergraduate student who is not a declared Theatre major. This certificate program offers students the ability to develop knowledge and skills in an area of theatre discipline.

Theatre is a collaborative art form with many varied disciplines and talents working together to create a unified piece of art. The Certificate in Theatre is designed to be flexible enough for a student to pursue an individualized focus of study in an area of their interest. For example, a student may pursue an acting focus, a technical theatre focus, a costuming focus, a scenic design focus, or a stage management focus. Or, a student may meet with the theatre advisor to create a custom focus that supplements and bolsters their primary degree path.

### HOW TO GET IN

All current UW-Madison undergraduates are eligible to complete the certificate, with the exception of students completing the Theatre and Drama major.

To declare the certificate, students must meet with the theatre and drama department advisor to discuss focus paths and to complete the theatre certificate declaration form. Contact Jim Stauffer at [jbstauffer@wisc.edu](mailto:jbstauffer@wisc.edu), (jbstauffer@wisc.edu) 608-263-2329 (main office), 6004 Vilas Communications Hall, 821 University Ave. Madison, WI 53706.

### REQUIREMENTS

The Certificate in Theatre requires a minimum of 16 credits, with at least 8 credits taken in residence. Completion of the certificate requires a minimum GPA of 2.5 in certificate coursework.

Code	Title	Credits
<b>Choose two Foundational courses:</b>		<b>6</b>
THEATRE/ ENGL 120	Introduction to Theatre and Dramatic Literature	
THEATRE 130	Fundamentals of Theatrical Design	
THEATRE 140	Voice I: Effective Communication	
THEATRE 150	Acting I: Introduction to Acting	
THEATRE 160	Technical Theatre Fundamentals	
<b>Choose one Intermediate course:</b>		<b>3</b>
THEATRE 219	Undergraduate Topics in Theatre and Drama	
THEATRE 234	Collaborative Problem Solving	
THEATRE 240	Intermediate Voice Training	
THEATRE 250	Fundamentals of Acting	
THEATRE 260	Producing Theatre	

THEATRE 266	Fundamentals of Stage Lighting Technology	
THEATRE 270	Fundamentals of Stagecraft	
<b>Choose two Focus-Specific courses:</b>		<b>6</b>
THEATRE 327	History of Costume for the Stage	
THEATRE 329	Introduction to African-American Performance	
THEATRE 342	Fundamentals of Movement for the Stage	
THEATRE 350	Acting Realism	
THEATRE 351	Fundamentals of Asian Stage Discipline	
THEATRE 352	Auditioning for Stage and Screen	
THEATRE 357	Introduction to Theatre for Cultural and Social Awareness	
THEATRE/ CURRIC/ SLAVIC 362	Drama for Teaching and Learning	
THEATRE 363	Principles and Practice of Stage Costume Design	
THEATRE 364	Makeup for the Theatre	
THEATRE 365	Sewing for the Theatre	
THEATRE/ ART 366	Stage Lighting I	
THEATRE 367	Script Analysis	
THEATRE 368	Fundamentals of Directing	
THEATRE 370	Drafting for the Theatre	
THEATRE 371	Sound for Theatre	
THEATRE/ ART 372	Set Design I	
THEATRE 379	Introduction to Stage Management	
THEATRE 431	History of Theatres and Staging	
THEATRE 440	Musical Performance for the Actor	
THEATRE 450	Acting Styles	
THEATRE/ CURRIC 462	Theatre for Young Audiences: Production	
THEATRE 466	Stage Lighting Design II	
THEATRE 472	Scenic Painting	
THEATRE 500	The Business of the Business	
THEATRE 501	The Business of Acting	
THEATRE/ CURRIC 525	Theatre in Education	
THEATRE 526	The Theatres of China and Japan	
THEATRE 541	Acting Shakespeare	
THEATRE 561	Backstage Laboratory III	
THEATRE 563	Costume Design II	
THEATRE/ ART 572	Set Design II	
THEATRE 579	Advanced Concepts in Stage Management	
THEATRE 597	Internship in Theatre	
THEATRE 619	Special Topics in Theatre and Drama	
THEATRE 631	Theories of Acting	
<b>Choose one Hands-On/Practicum course:</b> <sup>1</sup>		<b>1-3</b>

THEATRE 360 Performance in Practice

THEATRE 361 Backstage Laboratory II

1

Students may request to take similar courses in other departments to fulfill this requirement.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Demonstrate basic proficiency in one or more areas of theatre study.
2. Demonstrate understanding of basic theatre concepts and methodology.

### PEOPLE

Information about faculty, staff, and other contributors to the Department of Theatre and Drama can be found on the department's website (<http://theatre.wisc.edu/>).

## SCHOOL OF HUMAN ECOLOGY

The School of Human Ecology (SoHE) at UW–Madison is a place where faculty and advisors work closely with students to prepare them for careers that improve the quality of people's lives. Our majors are community and nonprofit leadership, human development and family studies, interior architecture, personal finance, retailing and consumer behavior, and textiles and fashion design. Each program provides a solid curriculum of practical skills that lead students to exciting professions, a better understanding of people and our world, and a bachelor of science undergraduate degree.

SoHE is located in Nancy Nicholas Hall, a beautiful and newly renovated building that provides first-class, cutting-edge classrooms and studio spaces. Within these walls we connect students to their passions, helping them discover exciting careers and opportunities to make a meaningful impact on individuals, families, and communities. Faculty, students, and staff are dedicated to providing students with solid and meaningful education through coursework, internships, travel, student organizations, community involvement, research, and scholarship.

Learn more about SoHE and its majors at [sohe.wisc.edu](https://sohe.wisc.edu) (<https://sohe.wisc.edu/>).

### DEGREES/MAJORS/CERTIFICATES

- Community and Nonprofit Leadership, B.S. (p. 1793)
- Consumer Behavior and Marketplace Studies, B.S. (p. 1797)
- Consumer Finance and Financial Planning, B.S. (p. 1800)
- Consumer Marketplace Studies, B.S. (p. 1803)

- Design Strategy, Certificate (p. 1811)
- Human Development and Family Studies, B.S. (p. 1827)
- Individual Major, B.S. (p. 1831)
- Interior Architecture, B.S. (p. 1813)
- Material Culture Studies, Certificate (p. 1817)
- Personal Finance, B.S. (p. 1805)
- Textiles and Design, Certificate (p. 1820)
- Textiles and Fashion Design, B.S. (p. 1821)

### PEOPLE

Visit the School of Human Ecology faculty and staff directory ([https://humanecology.wisc.edu/staff/uw\\_staff\\_type/faculty-staff/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/)).

### ENTERING THE SCHOOL

## APPLYING TO UW–MADISON

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Students who indicate interest in a SoHE major on their UW–Madison application will be admitted to the SoHE program or pre-program of choice upon admittance to the university. In addition, students may indicate interest in a SoHE major when registering for Student Orientation, Advising, and Registration (SOAR).

### VISITING CAMPUS AND SOHE

SoHE holds monthly visit events for prospective students and their families and guests.

View and register (<https://www.admissions.wisc.edu/visitbucky/events.php?etypeid=22>) for an upcoming visit event.

If you are unable to attend one of these dates, please contact the SoHE Advising and Career Center at 608-262-2608 or [advising@sohe.wisc.edu](mailto:advising@sohe.wisc.edu) to schedule an appointment.

## CURRENT UW–MADISON STUDENTS DECLARATION

- First-semester students may declare SoHE majors.
- All students with fewer than 60 earned GPA credits, a minimal 2.75 cumulative GPA, and not on probation in their current school/college may declare SoHE majors.

### APPLICATION

- All other students must apply through a competitive application process.

The best way for interested students to learn more about declaring or applying a major is to visit SoHE's advising webpage (<https://advising.humanecology.wisc.edu/academics/apply/>).

## REENTERING STUDENTS

Students previously enrolled at the university who have not attended for a semester or more must complete a reentry application as outlined

by the UW–Madison Office of Admissions and Recruitment (<http://www.admissions.wisc.edu>). Students who were enrolled in a School of Human Ecology program before their absence from UW–Madison will be readmitted to that program, provided they were in good academic standing when they left (i.e., not on probation, strict probation, or dropped by the university). Reentry applicants who were dropped by the university are asked to submit supplemental application materials. Instructions for the supplemental application are sent after the student has submitted the online reentry application.

Students who were previously enrolled in another UW–Madison school or college will not be admitted directly to a School of Human Ecology program. They must apply for reentry to the university with another school or college—usually the school or college in which they were previously enrolled. Once readmitted to the university, students may apply to the desired SoHE program through the application process for that program. For information about the school's programs and application processes, see *Applying to Human Ecology as an On-Campus Student* (<http://admissions.wisc.edu/apply-as-a-reentry-student/>).

It is recommended that students who have been readmitted to a School of Human Ecology program schedule an appointment with an academic advisor in the Advising & Career Center.

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit *SoHE Internships* (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

### STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW–Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit *SoHE Student Organizations* (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW–Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## POLICIES AND REGULATIONS

### ACADEMIC ACTIONS GRADING AND INCOMPLETES

The School of Human Ecology follows UW–Madison letter grade and notation standards. Please see *Valid Grades* (<https://registrar.wisc.edu/valid-grades/>) for notation definitions and standard regulations.

**Incompletes.** Incomplete grades may be granted when a documented illness or other substantial hardship causes the student to be unable to take final exams or complete a limited portion of the course assignments. To be eligible for an Incomplete, a student must 1) be earning a passing grade in the course until near the end of the semester, 2) request the Incomplete option before final grades are posted, and 3) have an agreed upon plan with the instructor for completing the remaining work and the deadlines for submitting the final work. Instructors have the discretion to determine whether an Incomplete is warranted.

If assigned a grade of Incomplete (I), for Human Ecology students, the work must be completed and graded no later than the last day of classes in the next fall or spring semester enrolled at UW–Madison (exclusive of summer term). Instructors have the authority to set an earlier deadline for finishing up an incomplete. If not resolved by the last class day, the grade will lapse to a Failure (F). An Extended Incomplete (EI) may be granted to allow additional time (past the last class day) with documentation of extenuating circumstances. An Extended Incomplete must be resolved within the following semester enrolled after granted or the grade will lapse to a Failure (F). Incompletes incurred during the summer session must also be completed no later than the close of the next semester in residence under the same rules. **Students are ineligible for the dean's list for the semester in which a grade of Incomplete is submitted.**

### ACADEMIC STANDING, PROBATION, AND DROPPED STATUS

- **Good Academic Standing.** Students are in good academic standing if their cumulative and most recent term (Fall, Spring, Summer) GPA are at least a 2.000. First-term students without a UW–Madison GPA are also in Good Academic Standing.
- **Probation.** A student with no previous action who earns a term GPA between 1.000 and 1.999 will be placed on probation.
- **Continued Probation.** A student on probation (or continued probation) whose cumulative GPA remains below 2.000 and whose term GPA is 2.000 or above will be placed on continued probation.
- **Strict Probation.** A student previously in Good Academic Standing with a current term GPA below 1.000 will be placed on strict probation. A student on probation whose term GPA is between 1.500 and 1.999 will be placed on strict probation.
- **Continued Strict Probation.** A student on strict probation or continued strict probation whose cumulative GPA remains below 2.000 but whose term GPA is 2.000 or above will be placed on continued strict probation.

- **Academic Dropped.** A student on probation whose term GPA is less than 1.500 or on strict probation whose term GPA is less than 2.000 will be dropped from the University for one year.

## READMISSION AFTER ACADEMIC DROPPED STATUS

The purpose of an academic drop is to prevent students from further damaging their academic record and incurring tuition costs while not successfully earning credits. The expectation is for students to spend the year away from campus to reflect on and resolve the issues that resulted in their poor academic performance. Students who were academically dropped from the university are eligible for readmission consideration after one full calendar year. Students dropped for a third time will not be readmitted.

To reenter the university after one full year, a student must apply for readmission to the School of Human Ecology and for reentry to the university. A student is never guaranteed readmission after being dropped. Readmission is most likely if the student has addressed the issues that contributed to being dropped from the university and has a plan and resources to support a successful return.

To apply for readmission to SoHE and the University of Wisconsin–Madison after being dropped, a student must follow these steps:

1. Complete the SoHE Readmission Request Form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8AI4WZBMjVSyMFD/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8AI4WZBMjVSyMFD/)).

### To ensure readmission consideration, follow these deadlines:

- Summer or Fall Term—Apply by March 1
- Spring Term—Apply by October 1

2. Complete the university reentry application (<https://admissions.wisc.edu/apply-as-a-reentry-student/>).

3. Schedule an appointment with a SoHE academic advisor by calling 608-262-2608 or emailing [advising@sohe.wisc.edu](mailto:advising@sohe.wisc.edu).

- Be prepared to discuss your activities while away from UW, including steps taken to address the circumstances that led to being dropped from UW and transcripts from other institutions that you may have attended while away.
- Use this advising appointment to: (re)establish a relationship with your academic advisor, review your enrollment plan for the term you intend to return, and review your degree completion plan.

The SoHE academic advisor will forward the Readmission Form, supporting documentation, and enrollment plan to SoHE Academic Deans' Services for review. An Academic Dean may choose to meet with students and establish enrollment expectations prior to a readmission decision. Students will be notified by writing of readmission decisions. Students who are granted permission for re-entry will be readmitted on strict academic probation to the School of Human Ecology.

## DECLARING MULTIPLE MAJORS

School of Human Ecology undergraduates can declare an additional undergraduate major in the College of Letters & Science, and a limited number of majors in the School of Education and College of Agriculture and Life Sciences. This is not a second degree. The additional major is noted on the student's transcript if all requirements of the second major are completed. School of Human Ecology (SoHE) students must plan

to finish all additional academic programs concurrently with their SoHE degree.

## EARNING DUAL DEGREES

Completing two degrees simultaneously (also referred to as Dual Degrees) is when a student completes two bachelor's degree programs and will receive two undergraduate degrees, as opposed to multiple transcript majors. Students interested in completing dual degrees should consult with their academic advisor early in their academic career and complete a four-year plan to understand the feasibility of completing requirements for both degrees. Earning a dual degree requires students to:

1. Earn an additional 30 credits specific to the second major,
2. Earn a minimum of 150 degree credits to graduate,
3. Complete all curriculum requirements for both degrees,
4. Ensure the two programs are substantially different from each other,
5. Complete course work in both programs simultaneously
6. Complete the Dual Degree Policy Request form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8AI4WZBMjVSyMFD/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8AI4WZBMjVSyMFD/)) and secure Dean's permission

Students are responsible for any rules or regulations that could potentially impose additional financial responsibilities as a result of pursuing dual degrees. Please note that some campus schools and colleges do not permit dual degrees for their students, thus preventing Human Ecology degree combinations with degrees in these schools and colleges.

**If the two degrees to be earned are within the School of Human Ecology,** before the start of the senior year in residence, students must meet the criteria for admission to both programs, secure academic dean and department approval to enroll, and the two degree programs' curriculum must differ substantially (for instance, Personal Finance and Consumer Behavior & Marketplace Studies do not differ to the extent that it would take an additional 30 credits to complete the second degree; therefore, earning both degrees simultaneously will not be allowed).

**If the two degrees to be earned are from two different schools/colleges at UW–Madison,** admission into the other school/college shall be based on the admission criteria for that school/college. Written admission/Dean's approval to the other school/college must be obtained before pursuing Human Ecology approval.

## RESIDENCY REQUIREMENT

The university requires that the last 30 credits be earned in residence at UW–Madison for students to be recommended for a degree, unless the student's major program requires completion of the degree at a cooperative institution. Students in their senior year must meet with their academic advisor and Deans' Services to secure permission before taking any degree required credits (including elective credits and credits and non-UW–Madison approved/not affiliated study abroad programs) at another institution.

## CREDIT OVERLOAD

A full-time student credit load is 12 to 18 credits, with the most typical credit load being 15 to 16 credits per fall/spring semester. A student wishing to enroll in more than 18 credits in a fall/spring semester or 12 credits in the summer must complete a Credit Overload Request ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8AI4WZBMjVSyMFD/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8AI4WZBMjVSyMFD/)) to obtain dean's approval. These credit limits are inclusive of credits enrolled

in at another institution, which may result in credits not being accepted at UW-Madison if approval is not secured in advance. Students should speak with their academic advisor prior to requesting a credit overload to ensure the overload is necessary and understand the workload and financial implications. Credit overload approvals will be based on prior academic performance and necessity.

## PASS/FAIL

The privilege of electing courses on a pass/fail basis is extended to undergraduate students in the school. Students who are in good academic standing (not on probation) may elect one course on the pass/fail basis per term. The summer sessions collectively count as one term. **A course taken pass/fail must be an elective.** A student may **not** take a required course or a prerequisite to a required course under this privilege. A maximum of 16 pass/fail credits may be counted toward a B.S. degree from the School of Human Ecology. **Courses taken pass/fail will count toward degree credits but will be excluded in the computation of grade point average and honors.**

Requests to take a course under the pass/fail privilege are initiated through the Course Change Request in the MyUW (<http://my.wisc.edu>) Student Center and must be elected by the noted enrollment Dates and Deadlines (<https://registrar.wisc.edu/dates/>). After making the request in MyUW, the request is routed to the Advising & Career Center for approval or further communication.

The registrar will convert final grades submitted by the instructor, who is not informed of the student's pass/fail status, to an S (pass) for grades A, AB, B, BC or C, and to a U (fail) for a grade of D or F. The grade is excluded from the GPA.

## CONCURRENT ENROLLMENT

Human Ecology students may enroll in a class(es) at another institution while being enrolled at UW-Madison without special permission, but must follow the credit limit and credit overload policies (<https://registrar.wisc.edu/credit-load-and-ranges/>). Students should consult with their academic advisor, Course Equivalency Service (<https://registrar.wisc.edu/course-equivalency-service/>), or Transferology (<https://kb.wisc.edu/registrar/page.php?id=122108>) to confirm the course will transfer to UW-Madison prior to enrolling. Upon completion of the non-UW-Madison courses, students must submit their transcripts with final grades to the Admissions Office (<https://registrar.wisc.edu/transfer-your-credit-to-uw-madison/>) for evaluation.

- **Concurrent Enrollment at UW-Extension/UW Independent Learning:** Students concurrently enrolling in UW-Extension/UW Independent Learning ([https://uwex.wisconsin.edu/aas/uwex\\_landing\\_pages/aas-il-paid\\_search/?lead\\_source=PaidSearchGoogle&kw=uw%20independent%20learning&\\_bt=618815558309&\\_bm=e&gclid=CjwKCAiAnZCdBhBmEiwA8nDQxYvjJ54Vgl9bFDEdJLc-\\_uPEHB9qU50pglRWR4DvbmHCYbBFy5qwSxoCvaAQAvD\\_BwE](https://uwex.wisconsin.edu/aas/uwex_landing_pages/aas-il-paid_search/?lead_source=PaidSearchGoogle&kw=uw%20independent%20learning&_bt=618815558309&_bm=e&gclid=CjwKCAiAnZCdBhBmEiwA8nDQxYvjJ54Vgl9bFDEdJLc-_uPEHB9qU50pglRWR4DvbmHCYbBFy5qwSxoCvaAQAvD_BwE)) courses should see more information or speak with an academic advisor.
- **Studying Abroad and Concurrent Enrollment:** Students studying abroad through International Academic Programs (IAP) (<https://studyabroad.wisc.edu/>) must contact IAP regarding restrictions and tuition rules to concurrent enrollment and the UW Independent Learning waiver. See more information (<https://advising.humanecology.wisc.edu/academics/student-resources/>) or speak with an academic advisor.

## APPEALS LATE DROP, WITHDRAWAL, OR MEDICAL WITHDRAWAL PETITIONS

SoHE students are expected to follow the Dates and Deadlines (<https://registrar.wisc.edu/dates/>) for adding and dropping courses outlined by the Office of the Registrar. Students considering a change in their enrollment are expected to speak with their academic advisor and take action before published university deadlines.

- **LATE DROP** - A course drop is when a student decides to discontinue in one (or more) courses, while continuing with at least one course in a term. A late drop appeal is when a student is requesting an exception to the drop deadline. It is only in rare non-academic circumstances outside of a student's control that exceptions to the drop deadline policy (<https://registrar.wisc.edu/dates/>) are approved, and never simply to avoid a poor grade. Students who face significant, unforeseeable circumstances outside of their control that negatively impact their ability to successfully complete a course(s), should schedule an appointment with their academic advisor or SoHE Deans' Services ([deansservices@sohe.wisc.edu](mailto:deansservices@sohe.wisc.edu)), AND complete the Late Add/Drop Petition form ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_8A14WZBMjVSYMFD/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_8A14WZBMjVSYMFD/)).
  - **WITHDRAWAL (non-medical)** - Students who do not wish to continue taking classes and drop all of their courses in a term are withdrawing/canceling their enrollment and must follow the Steps to Withdraw (<https://kb.wisc.edu/registrar/25601/>). Students may choose to withdraw for a variety of personal or financial reasons without dean's permission when processed by the university deadline. Students may be required to complete the Reentry Form (<https://admissions.wisc.edu/apply-as-a-reentry-student/>) to enroll in a future semester.
  - **MEDICAL WITHDRAWAL** - Students who wish to withdraw as a result of a serious or unexpected physical or mental health condition, a serious or unexpected physical or mental health condition of an immediate family member who requires the student's care, or the death of an immediate family member that completely precludes the student from actively participating as a student can request a partial tuition refund according to the Medical Withdrawal process (<https://registrar.wisc.edu/medical-withdrawal/>). Students requesting a medical withdrawal and refund must complete the Steps to Withdraw (<https://kb.wisc.edu/registrar/25601/>), meet with SoHE Deans' Services ([deansservices@sohe.wisc.edu](mailto:deansservices@sohe.wisc.edu)), and provide required documentation within one year of the semester enrolled. Approval will be granted on a case-by-case basis.
- A Drop (DR) or Withdrawal (W) transcript notation after the enrollment deadline is a national standard across universities and colleges to indicate when a student makes an enrollment change after the start of the semester, which has no negative impact on a student's academic record. Because students may drop courses for a wide variety of reasons, future employers and graduate/professional programs do not scrutinize or make any assumptions about the merits of a "DR" or "W". It is simply a notation that students have made an enrollment change after the deadline.

## APPEAL OF A SOHE GRADE

A student who believes a grade received in a SoHE course was an error or not consistent with guidelines outlined in the syllabus or campus standards has the right to appeal the grade.

1. The student must first discuss the grade dispute with the instructor of the course.
2. If the student and instructor cannot come to an agreement, the student will provide a formal written grade appeal to the SoHE Deans' Services. The written appeal must include: the class, instructor, grade received, date and conclusion of meeting with instructor, the specific reason(s) for appealing the grade, and telephone number where they can be reached for follow-up. Send to SoHE Deans' Services. (deansservices@sohe.wisc.edu)
3. The department chair will perform the due diligence necessary (including, but not limited to, meeting with the instructor and student) to assess the merits of the appeal and will provide a decision in writing to the assistant dean.
4. Should the student wish to further appeal the decision, the SoHE Undergraduate Program Council will perform the due diligence necessary (which may include, but not limited to, meeting with the instructor and department chair and/or student) to assess the merits of the appeal and will provide a decision in writing to the assistant dean.
5. The SoHE Undergraduate Program Council appeals decision is final.

## APPEAL OF DENIAL OF ADMISSION TO A SOHE UNDERGRADUATE MAJOR/CERTIFICATE

This appeal process is for students who were denied admission to a SoHE undergraduate program. Students who feel they have a compelling reason to appeal their admissions decision may do so in writing by the deadline indicated in the admission letter. Appeals must satisfy one of the following factors to be considered:

- The student believes a factual error was self-reported on the application or made by the admissions committee during review of the application.
- There is new information regarding academic or non-academic extenuating circumstances.

While admission appeals satisfying the above conditions will be reviewed by the admissions committee, it is important to understand that simply meeting these criteria in no way guarantees acceptance into the program.

### Filing an Appeal

1. The student will file a letter of program admission appeal to SoHE Dean's Services (deansservices@sohe.wisc.edu), stating the facts of the situation based on one or both of the conditions listed above and include the student's telephone number where they can be reached for follow-up. Any additional documentation or supporting evidence should be titled and attached to the letter of appeal. The deadline by which a student must file an appeal will be written in the denial letter for the undergraduate program in question. For a situation where grades/credits were not posted to a student's record prior to applying to the program, the student record must be complete with grades and credits on the official UW-Madison record by the time the appeal is filed to be considered.
2. The Academic Dean will forward the appeal to the appropriate departmental admissions committee. The admissions committee will

perform the due diligence necessary to assess the merits of the new information for the appeal.

3. The Academic Dean will communicate the decision to both the student and departmental admissions committee in writing.
4. Should the student wish to further appeal the decision in the case of extenuating circumstances, the Academic Dean will forward the appeal to the SoHE Undergraduate Program Council (UPC). The UPC will perform the due diligence necessary (which may include, but not limited to, meeting with the admissions committee, department chair, and/or student) to assess the merits of the appeal.
5. The Academic Dean will communicate the decision to the student and the admissions committee in writing. The SoHE Undergraduate Program Council's (UPC) decision is final.

## APPEAL OF BEING DROPPED FROM UW-MADISON FOR ONE YEAR

SoHE students who are dropped from the university based on academic performance are permitted to appeal for readmission consideration immediately after being dropped. Students with documentation of special circumstances outside their control, evidence that these circumstances have changed, and realistic strategies in place to improve their academic performance have the greatest likelihood of a successful appeal. Students who do not appeal before the deadline must wait at least one full calendar year before being eligible for readmission consideration.

### Filing An Appeal

1. Students wishing to appeal their dropped status must meet with SoHE Dean's Services ( deansservices@sohe.wisc.edu) and complete the Dropped Status Appeal Form ([https://uwmadison.qualtrics.com/SE/?SID=SV\\_6Lv7QPa3P6Ay7mR](https://uwmadison.qualtrics.com/SE/?SID=SV_6Lv7QPa3P6Ay7mR)) prior to the deadline outlined in their dropped status notification. An Academic Dean will explore with the student the purpose of the drop process, circumstances that led to the drop, and provide guidance on writing the appeal.
2. The Dean will submit the appeal, academic transcript, and additional background information to the SoHE Undergraduate Program Council (UPC) for review. UPC will make a decision regarding the appeal before the beginning of the next term.
3. The Academic Dean will communicate the appeal decision to the student in writing. If the appeal is granted, the student will be readmitted to the university on strict probation. If the appeal is not granted, the dropped status is upheld, all courses will be administratively dropped, and the student is eligible for readmission consideration **one full calendar year after the dropped date.**

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SOHE GENERAL EDUCATION REQUIREMENTS

Seven undergraduate majors are available in the school. There are common general education requirements for all SoHE majors, but these are reflected differently in each program. Please review each major requirement page for the specific general education courses needed for the degree.

Code	Title	Credits
<b>Literature</b>		<b>3</b>
	Select 3 credits designated Literature breadth	
<b>Humanities <sup>1</sup></b>		<b>6</b>
<b>Social Science</b>		<b>9</b>
	Select 9 credits designated Social Science breadth	
<b>Physical, Biological, and Natural Science</b>		<b>9</b>
	Select 9 credits designated Physical, Biological, and/or Natural Science breadth	
<b>Human Ecology Breadth</b>		
	Select 3 credits in the School of Human Ecology taken outside the major	
<b>Major Requirements and Electives</b>		
	Minimum total for graduation: 120 credits with no fewer than 25 credits taken within the School of Human Ecology.	

1

SoHE will accept as humanities credit courses from designated humanities breadth courses as well as the following areas or departments: art, art history, classics, English, foreign languages (including beginning languages), cultural history, history of science, integrated liberal studies, literature (including comparative literature), music (including applied music), philosophy, communication arts, studies of cultures—e.g., African studies, East Asian studies, Hebrew and Semitic studies, South Asian studies, Scandinavian studies.

## REQUIREMENTS FOR GRADUATION

The bachelor of science (B.S.) degrees granted by the School of Human Ecology require a minimum total of 120 credits, with a minimum of 25 credits in the school. To remain in good academic standing, students must maintain a minimum GPA of 2.0. A 2.0 cumulative GPA must be earned by the end of the senior year in order to be recommended for a B.S. degree.

The School of Human Ecology will graduate a student at the end of the semester (spring, summer, or fall) in which all SoHE major requirements are complete. Graduation will not be postponed for incomplete additional major(s), certificate program (s), specialization(s), study abroad, or honors program(s). It is the student's responsibility to prepare for graduation and to ensure that all graduation requirements have been met. Students expecting to graduate and/or participate in commencement exercises should declare their intent through the My UW Student Center in accordance with campus deadlines.

## RESOURCES

### ADVISING & CAREER CENTER

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### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## HONORS

### DEAN'S HONOR LIST

At the end of each semester the names of all students with a grade point average of 3.75 or higher in at least 12 graded credits for that semester will be included on the Dean's Honor List. A notation of "Dean's Honor List" will be entered on the student's transcript.

### GRADUATION WITH DISTINCTION

"Graduation with Distinction" will appear on the transcripts of students who have earned a cumulative grade point average that places them *within the top 20 percent* of students graduating that term in their school or college with 60 credits or more at the University of Wisconsin–Madison.

Students *in the top 5 percent* will receive the designation "Graduation with Highest Distinction." The Office of the Registrar determines whether students have met these criteria. Notations citing graduation distinction will be made on the transcript.

### HONORS PROGRAM

The School of Human Ecology Honors Program provides an opportunity for students to pursue coursework in greater depth than is possible in regular courses. The honors program is a school-wide program open to students regardless of major. Honors program members are eligible to enroll in courses offered for honors-only credit, to participate in campuswide activities for honors program students, and to apply for special research-funding opportunities. Upon completion of the honors program requirements and degree requirements, the student will receive an honors degree from the School of Human Ecology. The transcript for a SoHE honors student who does not complete all honors degree requirements will have the honors designation next to honors courses completed.

For additional information about the Honors Program including admission, requirements, credits, and honors thesis, contact the SoHE Advising & Career Center (<https://advising.humanecology.wisc.edu/>).

## CIVIL SOCIETY AND COMMUNITY STUDIES

The Department of Civil Society and Community Studies offers a bachelor of science degree in Community and Nonprofit Leadership and a Ph.D. in Human Ecology: Civil Society and Community Research. The Community and Nonprofit Leadership major prepares its graduates for careers in community and nonprofit settings, graduate school, and post-baccalaureate service-oriented programs. Academic requirements include specialized emphases in human ecology; general studies in humanities, social sciences, and natural sciences; and coursework focused on community impact and social change processes. Students may also engage in complementary coursework, undergraduate certificates, or additional undergraduate majors.

## DEGREES/MAJORS/CERTIFICATES

- Community and Nonprofit Leadership, B.S. (p. 1793)

## PEOPLE

**FOR MORE INFORMATION, VISIT THE SCHOOL OF HUMAN ECOLOGY, CIVIL SOCIETY AND COMMUNITY STUDIES FACULTY DIRECTORY ([HTTPS://HUMANECOLOGY.WISC.EDU/STAFF/UW\\_STAFF\\_TYPE/FACULTY-STAFF/SOHE-DEPARTMENT/CIVIL-SOCIETY-COMMUNITY-STUDIES/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/sohe-department/civil-society-community-studies/)).**

## RESOURCES AND SCHOLARSHIPS

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## COMMUNITY AND NONPROFIT LEADERSHIP, B.S.

Through academic study, community engagement, and applied research, Community and Nonprofit Leadership (CNPL) undergraduate students develop into competent, caring professionals interested in community-based change and the expanding nonprofit sector. In smaller, inclusive, project-based courses, CNPL students collaborate with each other and community partners, gaining practical experience and making a difference through their coursework. The CNPL bachelor of science degree prepares its graduates for careers in community and nonprofit settings, graduate school (in law, policy, community health, etc.), and post-baccalaureate service-oriented programs (such as Peace Corps, AmeriCorps, City Year, etc.), enabling them to create, lead, and support innovative community-based initiatives that change lives and make the world a better place.

Their work and advanced study address human, family, and civil society issues such as: food and environmental justice, homelessness and rights to housing, health equity, gender equality, racial justice, community and leadership development, community organizing, advocacy, and more.

CNPL majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

### HOW TO GET IN

## PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Students who indicate interest in the community and nonprofit leadership (CNPL) major on their UW-Madison application will be admitted to the CNPL major upon admittance to the university. In addition, students may indicate interest in CNPL when registering for Student Orientation, Advising, and Registration (SOAR).

## CURRENT UW-MADISON STUDENTS

### Declaration

- First-semester students may declare SoHE majors.
- All students with fewer than 60 GPA credits, a minimal 2.75 cumulative GPA, and not on probation in their current school/college may declare SoHE majors.

### Application

- All other students must apply through a competitive application process.

The best way for interested students to receive advising or additional information is by meeting with a SoHE advisor (<https://sohe.wisc.edu/students/applying-to-sohe/bass/>).

Visit On-campus Student Application (<https://sohe.wisc.edu/prospective-students/prospective-students/applying-human-ecology/>) for application information and deadlines.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |   |
|-------------------|---|
| General Education | • Breadth-Humanities/Literature/Arts: 6 credits   |
|                   | • Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits |
|                   | • Breadth-Social Studies: 3 credits   |
|                   | • Communication Part A & Part B *   |
|                   | • Ethnic Studies *  |
|                   | • Quantitative Reasoning Part A & Part B *  |

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Statistics</i>		3-4
Select one of the following:		
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		9
<i>Physical, Biological and Natural Science</i>		9
<i>Human Ecology Breadth</i>		6

Select six credits of Human Ecology courses from CNSR SCI, DS, HDFS, or INTER-HE.

**Total Credits** **36-37**

## COMMUNITY AND NONPROFIT LEADERSHIP REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<i>Community and Nonprofit Leadership Core Courses</i>		
CSCS 125	Community and Social Change	3
CSCS 300	Nonprofit Sector: Overview and Foundations	3
CSCS 345	Evaluation and Planning for Community and Nonprofit Organizations	3
CSCS 460	Civil Society and Community Leadership	3
CSCS 570	Community Based Research and Evaluation	3
CSCS 600	Community Issues and Action Capstone	3
<i>Community and Nonprofit Leadership Depth Courses</i>		
Complete 9 credits from any other Civil Society & Community Studies courses		9
CSCS courses ( <a href="http://guide.wisc.edu/courses/cscs/">http://guide.wisc.edu/courses/cscs/</a> )		
<i>Professional Development</i>		
CSCS 254	Community & Nonprofit Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
CSCS 601	Internship	3
<b>Electives</b>		
Select electives to fulfill degree requirement of 120 credits		
<b>Total Credits</b>		<b>32</b>

## UNIVERSITY DEGREE REQUIREMENTS

<b>Total Degree</b>	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- (Ecological perspectives on community and society) Articulate and apply an ecological perspective at discrete levels of analysis (individual, group, community, and society).
- (Civic literacy and the public sphere) Assess the major trends in civil society recognizing the influence and interconnectedness across the major sectors of society and exhibit strong capacity for sustained, high impact participation in civic life.
- (Identity, diversity, and social justice) Recognize well-being and social justice as relational and position, applying these principles in community organizing and empowerment.
- (Organizational management and professional development) Demonstrate entry-level knowledge and skills relevant to nonprofit and community organizations and exhibit the practices of a lifelong learner.
- (Research, analysis, and communication) Vet and/or generate high quality data, perform relevant analyses, and share results with target audiences using oral, written, and visual communication techniques.
- (Leadership, ethics, and well-being) Recognize the value of being a reflective, ethical leader who cultivates others' strengths and leadership capabilities, while exhibiting self-care and care for others.

## FOUR-YEAR PLAN

This is a sample four-year plan for Community & Nonprofit Leadership. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

<b>Freshman</b>			
Fall	Credits	Spring	Credits
Communications A	3	Communications B	3-4
Ethnic Studies	3	Social Science	3
Quantitative Reasoning A	3	SoHE Breadth	3
Science	3	Science	3
Humanities	3	CSCS 254	1
<b>15</b>		<b>13-14</b>	
<b>Sophomore</b>			
Fall	Credits	Spring	Credits
CSCS 125	3	INTER-HE 202	1
SoHE Breadth	3	CSCS 300	3
Social Science	3	Literature	3
Humanities	3	Science	3
Elective	3	Social Science	3
		Elective	2
<b>15</b>		<b>15</b>	

**Junior**

Fall	Credits	Spring	Credits	Summer	Credits	Total
CSCS 345	3	CSCS 460	3	CSCS 601	3	3
Statistics (Quantitative Reasoning B)	3	Community & Nonprofit Leadership Depth	3			
Elective	3-4	Elective	3			
Elective	3	Elective	3			
Elective	3	Elective	3			
<b>15-16</b>		<b>15</b>				<b>3</b>

**Senior**

Fall	Credits	Spring	Credits
CSCS 570	3	CSCS 600	3
Community & Nonprofit Leadership Depth	3	Community & Nonprofit Leadership Depth	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 121-123****ADVISING AND CAREERS****ADVISING & CAREER CENTER**

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**CAREER DEVELOPMENT**

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**PEOPLE**

**FOR MORE INFORMATION, VISIT THE SCHOOL OF HUMAN ECOLOGY, CIVIL SOCIETY AND COMMUNITY STUDIES FACULTY DIRECTORY ([HTTPS://HUMANECOLOGY.WISC.EDU/STAFF/UW\\_STAFF\\_TYPE/FACULTY-STAFF/SOHE-DEPARTMENT/CIVIL-SOCIETY-COMMUNITY-STUDIES/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/sohe-department/civil-society-community-studies/)).**

**WISCONSIN EXPERIENCE****INTERNSHIPS**

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

**STUDENT ORGANIZATIONS**

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW-Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW-Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

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To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## CONSUMER SCIENCE

The Department of Consumer Science studies interactions among consumers, business, and government in order to advance the well-being of consumers, families, and communities. The department is multi-disciplinary, including study in economics, finance, sociology, psychology, marketing, and public affairs. The Department of Consumer Science offers multiple undergraduate degree programs both on-campus and online. Consumer Behavior & Marketplace Studies and Personal Finance are both on-campus programs. Consumer Finance & Financial planning and Consumer Marketplace Studies are both offered online as a part of the Online Undergraduate Degree program. All programs focus broadly on the economic well-being of consumers and society. The department also

offers M.S. and Ph.D. degrees in human ecology: consumer behavior and family economics.

## DEGREES/MAJORS/CERTIFICATES

- Consumer Behavior and Marketplace Studies, B.S. (p. 1797)
- Consumer Finance and Financial Planning, B.S. (p. 1800)
- Consumer Marketplace Studies, B.S. (p. 1803)
- Personal Finance, B.S. (p. 1805)

## PEOPLE

For more information, visit the School of Human Ecology Consumer Science (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>) faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>).

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

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Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## CONSUMER BEHAVIOR AND MARKETPLACE STUDIES, B.S.

### CONSUMER BEHAVIOR & MARKETPLACE STUDIES

Consumer Behavior & Marketplace Studies leverages technology and research to understand and improve the global customer experience. This bachelor of science degree blends business and analytics with creativity, trend tracking, and technology. Students develop the skills to work in an industry that powers economies and offers ample employment opportunities, including online retailing and social commerce professions. Our experienced faculty guide students through an inspiring and flexible curriculum that prepares them for careers in a dynamic and globally-focused industry.

Explore the world of commerce and technology from a people-first perspective. As a Consumer Behavior & Marketplace Studies major students will learn to research, improve, and better understand the global customer experience with the support and guidance of SoHE faculty, a team of industry experts and researchers. Coursework integrates analytics and statistics with retailing, consumer science, and business courses.

SoHE's Consumer Behavior & Marketplace Studies graduates work for diverse and rapidly growing retailing companies around the globe. Technology and management jobs have been in high demand for several years and are only expected to continue their rapid growth.

Consumer Behavior & Marketplace Studies majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

### HOW TO GET IN

### PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Students who indicate interest in the consumer behavior and marketplace studies major on their UW-Madison application will be admitted to the consumer behavior and marketplace studies major upon admittance to the university. In addition, students may indicate interest in consumer behavior and marketplace studies when registering for Student Orientation, Advising, and Registration (SOAR).

## CURRENT UW-MADISON STUDENTS

### Declaration

- Students in their first year of enrollment at UW-Madison (i.e. their first two fall/spring semesters) may declare the major, as long as they meet the following criteria:
  - Minimum 2.75 GPA
  - Not on academic probation

### Application

- All other students (who do not meet the declaration criteria above) must apply through a competitive application process

The best way for interested students to learn more about declaring or applying to a major is to visit SoHE's advising webpage (<https://advising.humanecology.wisc.edu/academics/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Math</i>		
MATH 112	Algebra	3
	Or higher (not MATH 141) unless exempt through placement exam	
<i>Statistics</i>		
		3-4
Select one of the following:		
STAT 301	Introduction to Statistical Methods	

SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	

<b>Arts and Humanities</b>		
Literature		3
Humanities		6
<b>Social Science</b>		
ECON 101	Principles of Microeconomics	4
Select 6 credits designated Social Science breadth		6
<b>Physical, Biological and Natural Science</b>		
Human Ecology Breadth		3
Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.		

**Total Credits** **37-38**

## CONSUMER BEHAVIOR AND MARKETPLACE STUDIES REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Consumer Science Courses</b>		
CNSR SCI 257	Introduction to Retail	2
CNSR SCI 201	Consumer Insights	3
CNSR SCI 275	Consumer Finance	3
CNSR SCI 657	Consumer Behavior	3
CNSR SCI 564	Retail Financial Analysis	3
CNSR SCI 555	Consumer Design Strategies & Evaluation	3

<b>Accounting Course</b>		
Select one course from the following:		3
ACCT I S 300	Accounting Principles	
ACCT I S 100	Introductory Financial Accounting	
GEN BUS 310	Fundamentals of Accounting and Finance for Non-Business Majors	

<b>Excel Proficiency</b>		
Select one course from the following:		1-2
GEN BUS 106	Foundational Skills for Business Analysis	
A A E 335	Introduction to Data Analysis using Spreadsheets	

<b>Consumer Behavior and Marketplace Studies Depth</b>		
Select one course from the following:		3
CNSR SCI 561	Consumer Engagement Strategies	
CNSR SCI 562	The Global Consumer	

CNSR SCI 567	Product Development Strategies in Retailing	
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**Consumer Science Depth**  
 Select 6 credits from the course list below. 6  
 (Not also used in the Consumer Behavior and Marketplace Studies Depth category)

CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 273	Finances & Families	
CNSR SCI 301	Consumer Analytics	
CNSR SCI 340	Building Financial Assets and Capability for Vulnerable Families	
CNSR SCI 360	Sustainable and Socially Just Consumption	
CNSR SCI/ HDFS 465	Families & Poverty	
CNSR SCI 477	The Consumer and the Market	
CNSR SCI 527	Consumer Spending and Saving Over the Lifecycle	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	
CNSR SCI 575	Family Economics and Public Policy	
CNSR SCI 579	Consumer Policy Analysis	

<b>Professional Development</b>		
CNSR SCI 250	Retail Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
CNSR SCI 603	Retailing Internship	3

**Electives**  
 Select electives to bring degree credit total to 120

**Total Credits** **35-36**

1  
 CNSR SCI 250 Retail Leadership Symposium may be repeated for up to three credits. Credits in addition to the one required credit will be counted as elective credits.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.



help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

## PEOPLE

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## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

### STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW–Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW–Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

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## CONSUMER FINANCE AND FINANCIAL PLANNING, B.S.

This program provides an opportunity for students to complete the B.S. Consumer Finance and Financial Planning degree at a distance. This option is ideal for returning students with some college credits who would like to complete the program in a flexible online format, with no on-campus attendance required. This program is interdisciplinary with an emphasis on financial management and the economic well-being of individuals and families. Topics include financial counseling, coaching, wealth management, financial product development, financial technology, and consumer behavior. Completion of the program and one additional elective course will make graduates eligible to sit for the Certified Financial



Planner® (CFP) exam, which SoHE students pass well above the national average.

## HOW TO GET IN

Students applying to the BS in Consumer Finance and Financial Planning program apply through UW-Madison Online (<https://online.wisc.edu/>). UW-Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). UW-Madison re-entry students may also be considered. For more information, visit the UW-Madison Online admissions website (<https://online.wisc.edu/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
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|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Math</i>		
MATH 112	Algebra	3
Or higher (not MATH 141) unless exempt through placement exam		
<i>Statistics</i>		
STAT 301	Introduction to Statistical Methods	3
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		
ECON 101	Principles of Microeconomics	4

ECON 102	Principles of Macroeconomics	3-4
Choose any designated Social Science breadth course to bring total credits to 9		3
<i>Physical, Biological, or Natural Science</i>		9
<i>Human Ecology Breadth</i>		3
Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.		

**Total Credits** **37-38**

## BACHELOR OF SCIENCE IN CONSUMER FINANCE AND FINANCIAL PLANNING REQUIREMENTS

Core requirements for the major are below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report. All students declared in the Bachelor of Science in Consumer Finance and Financial Planning major must only take online courses.

Code	Title	Credits
<b>Excel Proficiency</b>		
Select one course from the following:		1-2
GEN BUS 106	Foundational Skills for Business Analysis	
A A E 335	Introduction to Data Analysis using Spreadsheets	
<b>Personal Finance Core</b>		
CNSR SCI 201	Consumer Insights	3
CNSR SCI 275	Consumer Finance	3
ACCT I S 300	Accounting Principles	3
or ACCT I S 100	Introductory Financial Accounting	
CNSR SCI 477	The Consumer and the Market	3
CNSR SCI 657	Consumer Behavior	3
<b>Financial Planning Courses</b>		
CNSR SCI 627	Advanced Consumer Finance	3
CNSR SCI 635	Estate Planning for Financial Planners	3
CNSR SCI 675	Family Financial Counseling	3
CNSR SCI 665	Household Risk Management	3
<b>Professional Development</b>		
CNSR SCI 251	Financial Services Leadership Symposium <sup>1</sup>	1
INTER-HE 202	SoHE Career & Leadership Development	1
<b>Electives</b>		
Select electives to bring degree credit total to 120 <sup>2</sup>		
<b>Total Credits</b>		<b>30-31</b>

1

CNSR SCI 251 Financial Services Leadership Symposium may be repeated for up to 2 credits. The additional credit will be counted as an elective.

2

ACCT I S/LAW 329 Taxation: Concepts for Business and Personal Planning is a recommended elective for students who want to be eligible to take the Certified Financial Planner (CFP) exam.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Invoke interdisciplinary and collaborative approaches to understand the interactions between individuals and their social and environmental contexts.
2. Demonstrate the ability to harness, analyze and interpret relevant data for making real world decisions.
3. Acquire professional and life skills related to workplace communication, teamwork, active listening and adapting to technology.
4. Demonstrate an understanding of consumer financial behavior and the role of income, savings, credit, planning, and benefits.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Each UW–Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with SoHE advisors in the Student Academic Affairs & Career Development Office (SAA), to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience. To find out about other ways

UW Madison's campus supports their online learners visit the Academic Support Services page. (<https://oss.wisc.edu/support-services/>)

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors (<https://online.wisc.edu/academic-career-advisor/>) help prepare students for life post-graduation through individual and group advising. The Office of Online Student Success (OSS) (<https://oss.wisc.edu/>) also provides a number of career resources (<https://oss.wisc.edu/resumes/>) for online learners.

## PEOPLE

For more information, visit the *School of Human Ecology Consumer Science* (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>) faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>).

## CERTIFICATION/LICENSURE

Completion of the BS in Consumer Finance and Financial Planning and one additional elective course will make graduates eligible to sit for the Certified Financial Planner® (CFP) exam.

### PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

#### The requirements of this program meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

#### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

#### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Not applicable

## RESOURCES AND SCHOLARSHIPS

### ACADEMIC ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with SoHE advisors in the Student Academic Affairs & Career Development Office (SAA), to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience. To find out about other ways UW Madison's campus supports their online learners visit the Academic Support Services page. (<https://oss.wisc.edu/support-services/>)

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### OTHER FINANCIAL RESOURCES

Grants and loans are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

Additional details on how to save (<https://online.wisc.edu/apply/#details>).

## CONSUMER MARKETPLACE STUDIES, B.S.

**Admissions to the Consumer Marketplace Studies B.S. are suspended as of fall 2023. If you have any questions, please contact the department.**

Consumer Marketplace Studies provides an opportunity for students to complete their degree at a distance. This option is ideal for returning students with some college credits who would like to complete their undergraduate degree in a flexible online format, with no on-campus attendance required. Program emphasis is on researching, understanding, and improving the global customer experience. Topics include retailing, consumer behavior, and consumer research and analysis. Graduates will be prepared to meet industry demand for employees with strong analytic and decision-making skills, who can redefine the way companies empathize and engage with their customers.

### HOW TO GET IN

**Admissions to the Consumer Marketplace Studies B.S. are suspended as of fall 2023. If you have any questions, please contact the department.**

Students applying to the BS in Consumer Marketplace Studies program apply through UW-Madison Online (<https://online.wisc.edu/>). UW-Madison Online undergraduate programs are for those applying as transfer students (i.e., those transferring at least 12 college credits). UW-Madison

re-entry students may also be considered. For more information, visit the UW-Madison Online admissions website (<https://online.wisc.edu/apply/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth-Humanities/Literature/Arts: 6 credits</li> <li>• Breadth-Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth-Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Math</i>		
MATH 112	Algebra	3
	Or higher (not MATH 141) unless exempt through placement exam	
<i>Statistics</i>		
STAT 301	Introduction to Statistical Methods	3
<i>Arts and Humanities</i>		
	Literature	3
	Humanities	6
<i>Social Science</i>		
ECON 101	Principles of Microeconomics	4
	Choose any 6 credits designated Social Science breadth.	6
<i>Physical, Biological, and Natural Science</i>		
	Human Ecology Breadth	3
	Select one Human Ecology course from CSCS, DS, HDFS, or INTER-HE.	
<b>Total Credits</b>		<b>37</b>

## BACHELOR OF SCIENCE IN CONSUMER MARKETPLACE STUDIES REQUIREMENTS

Core requirements for the major are below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report. All students declared in the Consumer Marketplace Studies major must only take online courses.

Code	Title	Credits
<b>Core Consumer Behavior and Marketplace Studies Courses</b>		
CNSR SCI 201	Consumer Insights	3
CNSR SCI 257	Introduction to Retail	2
CNSR SCI 275	Consumer Finance	3
<b>Accounting Courses</b>		
ACCT I S 300 or ACCT I S 100	Accounting Principles Introductory Financial Accounting	3
CNSR SCI 564	Retail Financial Analysis	3
CNSR SCI 657	Consumer Behavior	3
CNSR SCI 555	Consumer Design Strategies & Evaluation	3
<b>Excel Proficiency</b>		
Select one course from the following:		1-2
GEN BUS 106	Foundational Skills for Business Analysis	
A A E 335	Introduction to Data Analysis using Spreadsheets	
<b>Consumer Behavior and Marketplace Studies Elective</b>		
Select one of the following:		3
CNSR SCI 561	Consumer Engagement Strategies	
CNSR SCI 562	The Global Consumer	
CNSR SCI 567	Product Development Strategies in Retailing	
<b>Consumer Science Electives</b>		
Select 6 credits from the following:		6
CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 273	Finances & Families	
CNSR SCI 301	Consumer Analytics	
CNSR SCI 477	The Consumer and the Market	
<b>Professional Development</b>		
CNSR SCI 250	Retail Leadership Symposium <sup>1</sup>	1
INTER-HE 202	SoHE Career & Leadership Development	1
<b>Electives</b>		
Select electives to bring degree credit total to 120		
<b>Total Credits</b>		<b>32-33</b>

1

CNSR SCI 250 Retail Leadership Symposium may be repeated for up to 3 credits. The additional credit(s) will be counted as elective credit.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Invoke interdisciplinary and collaborative approaches to understand the interactions between individuals and their social and environmental contexts.
2. Demonstrate the ability to harness, analyze and interpret relevant data for making real world decisions.
3. Acquire professional and life skills related to workplace communication, teamwork, active listening and adapting to technology.
4. Demonstrate an understanding of the global retail industry and how retailers can enhance consumer well-being.

## FOUR-YEAR PLAN

This program is designed for transfer students, most of whom will enroll on a part-time basis. As such, there is not a four-year plan for this program. Please refer to the [Requirements](#) tab for more information about the curriculum and program plan.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

Each UW–Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with SoHE advisors in the Student Academic Affairs & Career Development Office (SAA), to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience. To find out about other ways UW Madison's campus supports their online learners visit the Academic Support Services page. (<https://oss.wisc.edu/support-services/>)

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors (<https://online.wisc.edu/academic-career-advisor/>) help prepare students for life post-graduation through individual and group advising. The Office of Online Student Success (OSS) (<https://oss.wisc.edu/>) also provides a number of career resources (<https://oss.wisc.edu/resumes/>) for online learners.

### PEOPLE

For more information, visit the School of Human Ecology Consumer Science (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>) faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>).

### RESOURCES AND SCHOLARSHIPS

## ACADEMIC ADVISING

Each UW-Madison Online student is assigned an academic and career (AC) advisor (<https://online.wisc.edu/academic-career-coach/>). The AC advisor will support the academic and personal success of each student by partnering with SoHE advisors in the Student Academic Affairs & Career Development Office (SAA), to assist students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience. To find out about other ways UW Madison's campus supports their online learners visit the Academic Support Services page. (<https://oss.wisc.edu/support-services/>)

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. AC advisors (<https://online.wisc.edu/academic-career-advisor/>) help prepare students for life post-graduation through individual and group advising. The Office of Online Student Success (OSS) (<https://oss.wisc.edu/>) also provides a number of career resources (<https://oss.wisc.edu/resumes/>) for online learners.

## OTHER FINANCIAL RESOURCES

Grants and loans are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

Additional details on how to save (<https://online.wisc.edu/apply/#details>).

## PERSONAL FINANCE, B.S.

The bachelor of science in personal finance looks at economics from a people perspective, developing financial experts who can help individuals and families live more secure lives. Graduates of personal finance are prepared to work in financial product development, financial technology, and consumer behavior.

### Personal Finance: Financial Planning (p. 1809)

Within the personal finance program, students may choose to complete the financial planning option. This financial planning option is registered

with the Certified Financial Planner® Board of Standards. The coursework is interdisciplinary with an emphasis on financial management and the economic well-being of individuals and families. The financial planning option is the more traditional personal finance program leading to careers in counseling, coaching, and wealth management. Graduates of the financial planning option leave fully prepared to sit for the prestigious Certified Financial Planner® exam, which SoHE students pass well above the national average.

All on-campus personal finance majors complete a required internship before graduating, allowing them to pursue their own personal interests and to develop a strong portfolio of skills and references that will propel them to launch successful careers.

### HOW TO GET IN

## PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Students who indicate interest in the personal finance major on their UW-Madison application will be admitted to the personal finance major upon admittance to the university. In addition, students may indicate interest in personal finance when registering for Student Orientation, Advising, and Registration (SOAR).

## CURRENT UW-MADISON STUDENTS

### Declaration

- Students in their first year of enrollment at UW-Madison (i.e. their first two fall/spring semesters) may declare the major, as long as they meet the following criteria:
  - Minimum 2.75 GPA
  - Not on academic probation

### Application

- All other students (who do not meet the declaration criteria above) must apply through a competitive application process

The best way for interested students to learn more about declaring or applying to a major is to visit SoHE's advising webpage (<https://advising.humanecology.wisc.edu/academics/apply/>).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed.

For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General Education	<ul style="list-style-type: none"> <li>Breadth—Humanities/Literature/Arts: 6 credits</li> <li>Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth—Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul>
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Math</i>		
MATH 112	Algebra	3
Or higher (not MATH 141) unless exempt through placement exam		
<i>Statistics</i>		3-4
STAT 301	Introduction to Statistical Methods	
SOC/ C&E SOC 360	Statistics for Sociologists I	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
ECON 310	Statistics: Measurement in Economics	
GEOG 360	Quantitative Methods in Geographical Analysis	
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		
ECON 101	Principles of Microeconomics	4
ECON 102	Principles of Macroeconomics	3-4
Choose any designated Social Science breadth courses to bring total credits to 9		3
<i>Physical, Biological or Natural Science</i>		9
<i>Human Ecology Breadth</i>		3
Select one Human Ecology course from CSCS, DS, HDFs, or INTER-HE.		
<b>Total Credits</b>		<b>37-39</b>

## PERSONAL FINANCE REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Excel Proficiency</b>		
Select one course from the following:		1-2
GEN BUS 106	Foundational Skills for Business Analysis	
A A E 335	Introduction to Data Analysis using Spreadsheets	
<b>Personal Finance Core</b>		
CNSR SCI 201	Consumer Insights	3
CNSR SCI 275	Consumer Finance	3
CNSR SCI 355	Financial Coaching	3
or CNSR SCI 301	Consumer Analytics	
ACCT I S 100	Introductory Financial Accounting	3
or ACCT I S 300	Accounting Principles	
<b>Consumer Science Courses</b>		
CNSR SCI 477	The Consumer and the Market	3
CNSR SCI 555	Consumer Design Strategies & Evaluation	3
CNSR SCI 657	Consumer Behavior	3
<b>Consumer Science Depth</b>		
Select 6 credits from the course list below.		6
(Not also used in the Personal Finance Core category)		
CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 273	Finances & Families	
CNSR SCI 301	Consumer Analytics	
CNSR SCI 340	Building Financial Assets and Capability for Vulnerable Families	
CNSR SCI 355	Financial Coaching	
CNSR SCI 360	Sustainable and Socially Just Consumption	
CNSR SCI/ HDFS 465	Families & Poverty	
CNSR SCI 527	Consumer Spending and Saving Over the Lifecycle	
CNSR SCI 575	Family Economics and Public Policy	
CNSR SCI 579	Consumer Policy Analysis	
<b>Professional Development</b>		
CNSR SCI 251	Financial Services Leadership Symposium <sup>1</sup>	1
INTER-HE 202	SoHE Career & Leadership Development	1
CNSR SCI 601	Consumer Science Internship	3
<b>Electives</b>		
Select electives to bring degree credit total to 120		
<b>Total Credits</b>		<b>33-34</b>

1

CNSR SCI 251 Financial Services Leadership Symposium may be repeated for up to 2 credits. The additional credit will be counted as an elective.

## PERSONAL FINANCE: NAMED OPTION

Students may elect to pursue a named option instead of the completing the Personal Finance major requirements listed above.

View as listView as grid

- PERSONAL FINANCE: FINANCIAL PLANNING, B.S. (P. 1809)

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Invoke interdisciplinary and collaborative approaches to understand the interactions between individuals and their social and environmental contexts.
- Demonstrate the ability to harness, analyze and interpret relevant data for making real world decisions.
- Acquire professional and life skills related to workplace communication, teamwork, active listening and adapting to technology.
- Demonstrate an understanding of consumer financial behavior and the role of income, savings, credit, planning and benefits.

## FOUR-YEAR PLAN

This is a sample four-year plan for Personal Finance. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits
Communications A	3	Communications B	3-4

Ethnic Studies	3 ECON 101 (Quantitative Reasoning B)	4
MATH 112	3 Humanities	3
Science	3 Science	3
Elective	2 SoHE Breadth	3

14

16-17

### Sophomore

Fall	Credits	Spring	Credits
CNSR SCI 251	1	INTER-HE 202	1
CNSR SCI 275	3	Literature	3
ECON 102	4	Science	3
Humanities	3	Statistics	3
GEN BUS 106 or A A E 335 (Excel proficiency)	1-2	Elective	3
Elective	2		

14-15

13

### Junior

Fall	Credits	Spring	Credits	Summer	Credits
ACCT I S 100	3	CNSR SCI 201	3	CNSR SCI 601	3
CNSR SCI 477	3	Elective	3		
Social Science	3-4	Elective	3		
Elective	3	Elective	3		
Elective	3	Elective	3		

15-16

15

3

### Senior

Fall	Credits	Spring	Credits
CNSR SCI 355 or 301	3	CNSR SCI 555	3
CNSR SCI 657	3	Consumer Science Depth	3
Consumer Science Depth	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3

15

15

**Total Credits 120-123**

## ADVISING AND CAREERS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they

identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE (<https://advising.humanecology.wisc.edu/academics/apply/>).

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

## PEOPLE

For more information, visit the School of Human Ecology Consumer Science (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>) faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>).

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

### STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW-Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)

- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW-Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## CERTIFICATION/LICENSURE

### PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

#### The requirements of this program meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming District of Columbia; American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands

#### The requirements of this program do not meet Certification/Licensure in the following states:

Not applicable

#### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Not applicable

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.



To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

## CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student’s personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

## SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## PERSONAL FINANCE: FINANCIAL PLANNING, B.S.

Within the personal finance program, students may choose to complete the financial planning option. This financial planning option is registered with the Certified Financial Planner® Board of Standards. The coursework is interdisciplinary with an emphasis on financial management and the economic well-being of individuals and families. The financial planning option is the more traditional personal finance program leading to careers in counseling, coaching, and wealth management. Graduates of the financial planning option leave fully prepared to sit for the prestigious Certified Financial Planner® exam, which SoHE students pass well above the national average

## REQUIREMENTS

### PERSONAL FINANCE: FINANCIAL PLANNING

Core requirements for the named option are below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Excel Proficiency</b>		
GEN BUS 106	Foundational Skills for Business Analysis	1-2
or A A E 335	Introduction to Data Analysis using Spreadsheets	

#### Personal Finance Core

CNSR SCI 201	Consumer Insights	3
CNSR SCI 275	Consumer Finance	3
CNSR SCI 355	Financial Coaching	3
or CNSR SCI 301	Consumer Analytics	
ACCT I S 100	Introductory Financial Accounting	3
or ACCT I S 300	Accounting Principles	
<b>Financial Planning Courses</b>		
CNSR SCI 627	Advanced Consumer Finance	3
CNSR SCI 635	Estate Planning for Financial Planners	3
CNSR SCI 675	Family Financial Counseling	3
ACCT I S/LAW 329	Taxation: Concepts for Business and Personal Planning	3
Select CNSR SCI 665 or R M I 300 & R M I 620 sequence		3-6
(3 or 6 credits):		
CNSR SCI 665	Household Risk Management	
OR		
R M I 300 & R M I 620	Principles of Risk Management and Employee Benefits Management	
<b>Professional Development</b>		
CNSR SCI 251	Financial Services Leadership Symposium <sup>1</sup>	1
INTER-HE 202	SoHE Career & Leadership Development	1
CNSR SCI 601	Consumer Science Internship	3
<b>Electives</b>		
Select electives to bring degree credit total to 120		
<b>Total Credits</b>		<b>33-37</b>

<sup>1</sup>

CNSR SCI 251 Financial Services Leadership Symposium may be repeated for up to 2 credits. The additional credit will be counted as an elective.

## FOUR-YEAR PLAN

This is a sample four-year plan for Personal Finance: Financial Planning. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

### Freshman

Fall	Credits	Spring	Credits
Communications A	3	Communications B	3-4
Ethnic Studies	3	ECON 101 (Quantitative Reasoning B)	4
MATH 112	3	Humanities	3
Science	3	Science	3
Elective	2	SoHE Breadth	3
<b>14</b>		<b>16-17</b>	

### Sophomore

Fall	Credits	Spring	Credits
CNSR SCI 251	1	INTER-HE 202	1
CNSR SCI 275	3	Literature	3

ECON 102	4 Science	3	
Humanities	3 Statistics	3	
GEN BUS 106 or A A E 335 (Excel proficiency)	1-2 Elective	3	
Elective	2		
<b>14-15</b>		<b>13</b>	
<b>Junior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
ACCT I S 100 or 300	3 CNSR SCI 201	3 CNSR SCI 601	3
CNSR SCI 665	3 CNSR SCI 635	3	
Social Science	3-4 Elective	3	
Elective	3 Elective	3	
Elective	3 Elective	3	
<b>15-16</b>		<b>15</b>	
<b>Senior</b>			
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>
CNSR SCI 355 or 301	3 ACCT I S/ LAW 329	3	
CNSR SCI 627	3 CNSR SCI 675	3	
Elective	3 Elective	3	
Elective	3 Elective	3	
Elective	3 Elective	3	
<b>15</b>		<b>15</b>	
<b>Total Credits 120-123</b>			

## PEOPLE

For more information, visit the School of Human Ecology Consumer Science (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>) faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/consumer-science/>).

## DESIGN STUDIES

Design Studies offers multidisciplinary education in design and research of interior design environments and textiles and apparel design, through participation in formal classroom instruction and ongoing research and scholarly endeavors. Students benefit from a broad-based program and faculty specializing in areas such as design visualization, environment and behavior studies, history of interiors and textiles, interior architecture, material culture, textile and apparel design, and textile science.

Two undergraduate degree majors are offered: interior architecture, and textiles and fashion design. The department also offers multiple undergraduate certificates in design strategy, material cultures studies, and textiles and design. There is also a human ecology: design studies graduate program, offering M.S., MFA, and Ph.D. degrees.

Student internships in both undergraduate majors augment campus course offerings, providing students with unique learning opportunities in their chosen fields. Design studies majors have access to design resources: studios, a computer laboratory equipped to support design work; textile laboratories including a testing room; an interior architecture resource

room, the Design Gallery, the Helen Louise Allen Textile Collection, and the Ruth Ketterer Harris Library. In addition, a strong collaborative environment exists for students and faculty interaction with other departments, institutes, and museums on the campus and other design programs within the state and country.

## DEGREES/MAJORS/CERTIFICATES

- Design Strategy, Certificate (p. 1811)
- Interior Architecture, B.S. (p. 1813)
- Material Culture Studies, Certificate (p. 1817)
- Textiles and Design, Certificate (p. 1820)
- Textiles and Fashion Design, B.S. (p. 1821)

## PEOPLE

For more information, visit the School of Human Ecology Design Studies faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/design-studies/>).

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

### CAREER DEVELOPMENT

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To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically

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Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## DESIGN STRATEGY, CERTIFICATE

### WHAT IS IT ABOUT?

Housed in the School of Human Ecology, this eighteen-credit certificate in Design Strategy provides undergraduate students from all majors with a hands-on, interdisciplinary approach to problem solving for strategic change. Through applying Design Thinking techniques and exploring the interconnections between people, built, natural, and financial environments, students will learn to put ideas into action and develop forward-thinking approaches to a variety of issues.

### WHAT IS DESIGN STRATEGY?

Design Strategy is a successful approach to problem solving with a focus on quality of life and sustainable futures. It begins with asking 'better' questions as a way to understand the root of the problem and why it is an issue. It is an empathetic, human-centered perspective that uses Design Thinking and draws from historical precedence and current research from a variety of fields to help solve complex and persistent problems.

### WHAT WILL STUDENTS GAIN?

Students acquire concrete methodologies which enable them to apply what they have learned in their degree studies in a way that goes beyond the theoretical emphasis of most degree programs. Rather than adding additional expertise and knowledge in a particular field, this certificate gives students ways to apply what they have learned in their majors to real world problems; in the process, they become confident and creative forward thinkers, who are able to work in interdisciplinary teams.

## HOW TO GET IN

All undergraduate students in good academic standing are eligible to apply for the Certificate in Design Strategy. Connect with an Academic Advisor for application information and the October and February deadlines.

## REQUIREMENTS

Code	Title	Credits
<b>Foundational Course</b>		<b>3</b>
DS 341	Design Thinking for Transformation	
<b>Selective Topics (choose one course from each of the three sections)</b>		<b>9</b>
<i>1: Consumer Behavior and Product Development</i>		
CNSR SCI/ RELIG ST 173	Consuming Happiness	
CNSR SCI 201	Consumer Insights	

CNSR SCI 255	Consumer Financial Services Innovation	
CNSR SCI 301	Consumer Analytics	
CNSR SCI 657	Consumer Behavior	
DS 527	Global Artisans	
<i>2: Communities and Social Change</i>		
CSCS 125	Community and Social Change	
CSCS 300	Nonprofit Sector: Overview and Foundations	
CSCS 335	Communicating with Key Audiences	
CSCS 460	Civil Society and Community Leadership	
CSCS 570	Community Based Research and Evaluation	
HDFS 469	Family and Community Influences on the Young Child	
<i>3: Humans and the Environment</i>		
DS 130	Introduction to Interior Architecture	
DS 221	Person and Environment Interactions	
DS/ANTHRO/ ART HIST/ HISTORY/ LAND ARC 264	Dimensions of Material Culture	
DS/ LAND ARC 639	Culture and Built Environment	
HDFS 425	Research Methods in Human Development and Family Studies	
HDFS/ CNSR SCI 465	Families & Poverty	
HDFS 474	Racial Ethnic Families in the U.S.	
HDFS 516	Stress and Resilience in Families Across the Lifespan	
<b>Elective Topics</b>		<b>3</b>
<i>Methods and Theories</i>		
ANTHRO 104	Cultural Anthropology and Human Diversity	
ANTHRO 300	Cultural Anthropology: Theory and Ethnography	
ANTHRO 415	The Anthropological Study of Children & Youth	
COM ARTS 260	Communication and Human Behavior	
COM ARTS 325	Media and Human Behavior	
L I S 202	Informational Divides and Differences in a Multicultural Society	
<i>Applications</i>		
ART 448	Special Topics	
DS 270	Design and Fashion Event Practicum	
DS/COMP SCI/ I SY E 518	Wearable Technology	
DS/ COMP SCI 579	Virtual Reality	
INTL ST 523	International Internship	

LAND ARC 210	Introduction to Landscape Architecture Design	
LAND ARC 563	Designing Sustainable and Resilient Regions	
M E 351	Interdisciplinary Experiential Design Projects I	
THEATRE 234	Collaborative Problem Solving	
<i>Communication and Analysis</i>		
ART 346	Basic Graphic Design	
BSE 270	Introduction to Computer Aided Design	
COM ARTS 155	Introduction to Digital Media Production	
COM ARTS 200	Introduction to Digital Communication	
DS 120	Design: Fundamentals I	
L I S 351	Introduction to Digital Information	
<b>Capstone</b>		<b>3</b>
CNSR SCI 555	Consumer Design Strategies & Evaluation	
DS 361	Design-Related International Experience	
DS 570	Design and Fashion Event Management	
DS 641	Advanced Design Thinking for Transformation	
HDFS 592	Research Experience in Human Development and Family Studies	
<b>Total Credits</b>		<b>18</b>

Students must earn a minimum 2.000 GPA on required certificate coursework. Completed courses listed within the certificate curriculum, whether or not they meet a specific requirement, are included in the calculation of the GPA.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Develop and understand empathy mindsets through the practice of observation, interviewing skills, and other related techniques.
2. Recognize that theories, knowledge, and concepts intrinsic to the practice of design are relevant to informing new approaches to addressing topics that are difficult to formulate using traditional theories.
3. Incorporate methods that rely on team work, communication, and collaborative activity.
4. Examine a wide range of problems confronting society by looking at them in context, in order to uncover their roots, visualize their interconnections, and identify their interdependencies.
5. Become collaborative, divergent thinkers, able to generate and visually communicate multiple ideas.

## ADVISING AND CAREERS

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### CAREER DEVELOPMENT

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## PEOPLE

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## RESOURCES AND SCHOLARSHIPS

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## CAREER DEVELOPMENT

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## SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## INTERIOR ARCHITECTURE, B.S.

The undergraduate major in interior architecture is a four-year professional program accredited by the Council for Interior Design Accreditation (CIDA) and leading to the Bachelor of Science degree in Interior Architecture. The program develops students' creativity in the design and planning of interior spaces by emphasizing the process and communication of design. Students learn to integrate the art of design with the social sciences concerning the interaction of people and their environment, the history of design, and the physical sciences relating to the effects of materials on the physical health and comfort of inhabitants. Insight into professional practice is enhanced through internship experiences.

Faculty maintain scholarly programs of study in design and research that form the basis of the graduate program and enrich the undergraduate program through coursework, design review, and student mentoring.

Course content helps students develop verbal and visual communication skills with exposure to both residential and commercial interiors. In addition, courses in art history, history of interiors, engineering, and art are required. A final portfolio is required before graduation. Studio spaces for student use, a resource center containing catalogs and samples, plus a lighting demonstration area and computer laboratory provide physical support for the interior architecture curriculum.

## HOW TO GET IN

### PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Freshmen should declare their intention to pursue the interior architecture (IA) major when they apply for admission to UW-Madison. In addition, students may indicate interest in the IA major when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW-MADISON STUDENTS

#### PHASE ONE: DESIGN CORE

A 2.75 minimum cumulative GPA is required for declaring the pre-interior architecture major (Phase One). Eligible students should meet with an advisor to declare as early in their academic career as possible.

Transfer students may take longer to complete their degree than students entering the program as freshmen, as they too must complete both Phase One and Phase Two, which contain specialized courses that must be taken sequentially.

#### Fall Coursework

Students must complete DS 120 and DS 221. Upon completion, students will be evaluated and ranked based on classroom performance and engagement.

#### Spring Coursework

Students must complete DS 220 and DS 140. In the case that student interest for spring courses exceeds course capacity, student ranking in fall courses (DS 120 and DS 221) and academic performance will be used to determine priority enrollment in the required spring courses. Enrollment in spring courses is not guaranteed and may be limited by permission based on class rankings and academic performance.

After completing DS 120 and DS 221, and while enrolled in DS 220 and DS 140, students may apply for admission to Phase Two: Professional Course Sequence. The selective application process for Phase Two admissions will open during the latter half of the spring semester and decisions will be made once the spring coursework is completed.

#### PHASE TWO: PROFESSIONAL COURSE SEQUENCE

Advancement into Phase Two is competitive and involves a holistic application process each spring. Evaluation for acceptance into the professional course sequence depends on rankings in the Phase One coursework (DS 120, 221, 220, and 140), cumulative GPA, and engagement within the major.

There are typically 32 available spots each application cycle. This is an industry standard to ensure appropriate student to faculty ratio.

After completing Phase One of the program and upon acceptance into Phase Two, all IA students must purchase a laptop computer based on minimum hardware specification and software licenses determined by the department and updated regularly. Students also have the option, but are

not required, to purchase a laptop computer before completion of Phase One of the program.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Arts and Humanities</i>		
Literature		3
Choose one of the following:		3
Any Art History course ( <a href="http://guide.wisc.edu/courses/art_hist/">http://guide.wisc.edu/courses/art_hist/</a> )		
DS/ANTHRO/ART HIST/HISTORY/LAND ARC 264	Dimensions of Material Culture	
Humanities		3
Social Science		9
Physical, Biological and Natural Science		9
Human Ecology Breadth		3
Select one Human Ecology course from CNSR SCI, CSCS, HDFS, or INTER-HE. Design Studies (DS) courses in the area of Textiles & Fashion Design may also be completed.		

**Total Credits** **30**

## INTERIOR ARCHITECTURE REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<i>Phase One: Design Core</i>		
DS 120	Design: Fundamentals I	3
DS 220	Design: Fundamentals II	3
DS 221	Person and Environment Interactions	3
DS 140	Visual Thinking – Form and Space	3
DS 252	Design Leadership Symposium	1
<i>Phase Two: Professional Course Sequence</i>		
<i>Interior Architecture Studio Core</i>		
DS 222	Interior Design I	4
DS 322	Interior Design II	4
DS 622	Interior Design III	4
DS 623	Interior Design IV	4
DS 626	Interior Design V	4
<i>Content Area Courses</i>		
DS 223	Interior Architectural Design	3
DS 224	Interior Materials and Finishes	3
DS 241	Visual Communication I	3
DS 242	Visual Communication II	3
DS 321	Problem-definition: Design Programming	3
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3
DS 451	Color Theory and Technology	3
DS 549	Environmental Control Systems: Lighting, Acoustics, and Thermal Comfort in Buildings	3
DS 624	Interior Architecture Professional Practice	3
DS 679	Research Methods in Design	3
<i>Professional Development</i>		
INTER-HE 202	SoHE Career & Leadership Development	1
DS 601	Internship	3
<i>Design Focus</i> <sup>1</sup>		
Select 6 credits in consultation with your SoHE academic advisor.		
<i>Electives</i>		
Select electives to meet minimum total of 120 degree credits		

1

Design Focus courses are intended to be an opportunity for students to develop more depth and uniqueness to their course of study. See Design Focus course list below. Please work with your SoHE academic advisor to seek approval for coursework taken outside of Design Studies.

**Design Studies course list**

Code	Title	Credits
DS 101	Introduction to Textile Design	3
DS 227	Textile Design: Printing and Dyeing I	3
DS 251	Textile Science	3
DS 252	Design Leadership Symposium (May be taken twice)	1
DS/ANTHRO/ ART HIST/HISTORY/ LAND ARC 264	Dimensions of Material Culture	4
DS 341	Design Thinking for Transformation	3
DS 361	Design-Related International Experience	1-6
DS 501	Special Topics (offerings vary by semester)	1-3
DS/COMP SCI/ I SY E 518	Wearable Technology	3
DS 527	Global Artisans	3
DS 561	Textiles: Specifications and End Use Analysis	3
DS/COMP SCI 579	Virtual Reality	3
DS/LAND ARC 639	Culture and Built Environment	3
DS 641	Advanced Design Thinking for Transformation	3

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Grounded in the history and theory relevant to the built environment and human behavior.

2. Intellectual skills for inquiry, creative thinking, and critical analysis.
3. Professional skills that prepare them for applying what they have learned to create new knowledge and solve problems in a real world setting.
4. Apply the design process to identify and explore complex problems and generate creative solutions that optimize the human experience within the interior environment. This includes the ability to apply research and the principles and theories of Design to their solutions.
5. Apply their knowledge of building materials and systems, building construction, and industry specific codes, standards and guidelines in order to enhance the health, safety, welfare and performance of building occupants.

**FOUR-YEAR PLAN**

This is a sample four-year plan for Interior Architecture. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

**Freshman**

Fall	Credits	Spring	Credits
Communications A	3	Communications B	3-4
Ethnic Studies	3	Quantitative Reasoning A	3-4
Science	3	DS 220	3
DS 120	3	ART HIST/ ANTHRO/ DS/HISTORY/ LAND ARC 264 or DS 264	4
DS 221	3	DS 140	3
DS 252	1		
<b>16</b>		<b>16-18</b>	

**Sophomore**

Fall	Credits	Spring	Credits
DS 222	4	DS 322	4
DS 224	3	DS 242	3
DS 241	3	DS 422	3
Science	3	INTER-HE 202	1
DS 421	3	Social Science	3
<b>16</b>		<b>14</b>	

**Junior**

Fall	Credits	Spring	Credits	Summer	Credits
DS 223	3	DS 623	4	DS 601	3
DS 321	3	DS 549	3		
DS 622	4	DS 624	3		
Design Focus	3	DS 679	3		
Literature	3				
<b>16</b>		<b>13</b>		<b>3</b>	

**Senior**

Fall	Credits	Spring	Credits
DS 626	4	Humanities	3
DS 451	3	Social Science	3
Design Focus	3	Science	3

Social Science	3 Elective	4
<b>13</b>		<b>13</b>

**Total Credits 120-122**

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### CAREER DEVELOPMENT

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## PEOPLE

**For more information, visit the School of Human Ecology** Design Studies faculty and staff directory (<https://humanecology.wisc.edu/staff/sohe-department/design-studies/>).

## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum

of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

### STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW-Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW-Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

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## ACCREDITATION

### ACCREDITATION

Council for Interior Design Accreditation (<https://accredit-id.org/>)

Accreditation status: Accredited. Next accreditation review: 2023.

## MATERIAL CULTURE STUDIES, CERTIFICATE

The certificate in material culture studies has two interrelated goals. First, students will become acquainted with the field of material culture studies and its methodologies. They will learn what kinds of objects are considered in the study of material culture (from small, intimate artifacts of daily life to large cultural landscapes) and how scholars and professionals from different fields and in different contexts enlist material culture in their research and activities. They will gain an appreciation for the information artifacts can provide. They will learn the kinds of questions that can be asked of objects and the kind of information that artifacts can show us. They will become familiar with (and able to distinguish between) descriptive and interpretive components of material culture study, and gain an awareness of the variety of methods. Second, students will gain an appreciation for the ways that "things" help us to connect to the world and see it in a new way, and the ways "things" give meaning to our lives and the lives of those around us.

## HOW TO GET IN

All undergraduate students in good academic standing are eligible to apply for the Material Culture Studies Certificate. Connect with an Academic Advisor for application information and the October and February deadlines.

\*Note for students who are thinking about declaring the Material Culture Certificate as well as the Art History Certificate: Undergraduate students may request permission to complete both the Material Culture certificate and the Art History certificate but **only one course** may overlap between the two certificates. Please consult with an Academic Advisor with any questions.

## REQUIREMENTS

### CERTIFICATE REQUIREMENTS

The Material Culture Studies Certificate Program requires that students complete **13 credits**, which includes the two core courses and two elective courses from the list below. An internship/practicum experience is recommended, but not required.

Please note: Students who are thinking about declaring the Art History Certificate as well as the Material Culture Certificate: Undergraduate students may request permission to complete both the Art History Certificate and the Material Culture Certificate but **only one course** may overlap between the two certificates. Please consult with an Academic Advisor with any questions.

### GOAL OF CERTIFICATE REQUIREMENTS

The goal of the certificate requirements is to provide students with a set of interdisciplinary skills, including the development of visual literacy, and an understanding of specific methods and theories of material culture analysis as they are most often practiced. A student might select electives to specialize in a particular geographic area of study or type of object, or to provide maximum depth in a certain period of time.

Code	Title	Credits
<b>Core Courses (select two):</b>		
ART HIST/ANTHRO/ DS/HISTORY/ LAND ARC 264	Dimensions of Material Culture <sup>1</sup>	4
ART HIST 563	Proseminar in Material Culture <sup>2</sup>	3
<b>Electives:</b>		
Select at least two courses to reach 13 credit minimum: <sup>3</sup>		6
ANTHRO 212	Principles of Archaeology	3
ANTHRO 337	Lithics and Archaeology	3
ANTHRO 352	Ancient Technology and Invention	3
ANTHRO/ AMER IND 354	Archaeology of Wisconsin	3
ANTHRO 370	Field Course in Archaeology	3-6
ANTHRO 391	Bones for the Archaeologist	3
ANTHRO 696	Archaeological Methods of Curation	1-3
ART HIST 210	A History of the World in 20 Buildings	3
ART HIST/ CLASSICS 300	The Art and Archaeology of Ancient Greece	3-4
ART HIST/ CLASSICS 304	The Art and Archaeology of Ancient Rome	3-4
ART HIST 305	History of Islamic Art and Architecture	3
ART HIST 307	From Tomb to Temple: Ancient Chinese Art and Religion in Transition	3
ART HIST 308	The Tastes of Scholars and Emperors: Chinese Art in the Later Periods	3
ART HIST/DS 363	American Decorative Arts and Interiors: 1620-1840	3-4

ART HIST 364	History of American Art: Art, Material Culture, and Constructions of Identity, 1607–present	3–4
ART HIST/ RELIG ST 373	Great Cities of Islam	3
ART HIST/ ASIAN 379	Cities of Asia	3
ART HIST 413	Art and Architecture in the Age of the Caliphs	3
ART HIST/ ASIAN 428	Visual Cultures of India	3
ART HIST 440	Art and Power in the Arab World	3
ART HIST 457	History of American Vernacular Architecture and Landscapes	3
ART HIST 468	Frank Lloyd Wright	3–4
ART HIST 475	Japanese Ceramics and Allied Arts	3
ART HIST/ RELIG ST 478	Art and Religious Practice in Medieval Japan	3
ART HIST 506	Curatorial Studies Exhibition Practice (Both 601 & 602)	3
ART HIST 601	Introduction to Museum Studies I (Must complete both 601 & 602)	3
ART HIST 602	Introduction to Museum Studies II (Must complete both 601 & 602)	3
ART HIST/HISTORY/ JOURN/L I S 650	History of Books and Print Culture in Europe and North America	3
DS 355	History of Fashion, 1400–Present	3
DS 421	History of Architecture and Interiors I: Antiquity through 18th Century	3
DS 422	History of Architecture & Interiors II: 19th and 20th Centuries	3
DS 430	History of Textiles	3
DS 642	Taste	3
FOLKLORE 320	Folklore of Wisconsin	3
FOLKLORE 439	Foodways	3
FOLKLORE/ L I S 490	Field Methods and the Public Presentation of Folklore	3
FOLKLORE/ ANTHRO 520	Ethnic Representations in Wisconsin	4
FOLKLORE 540	Local Culture and Identity in the Upper Midwest	3
GEOG/ URB R PL 305	Introduction to the City	3–4
GEOG 342	Geography of Wisconsin	3
HIST SCI 222	Technology and Social Change in History	3
JOURN/ HISTORY 560	History of U.S. Media	4
LAND ARC 260	History of Landscape Architecture	3
LAND ARC 677	Cultural Resource Preservation and Landscape History	3
SCAND ST 296	The Scandinavian Heritage in America	3

SCAND ST/ FOLKLORE 440	Scandinavian American Folklore	3
THEATRE 327	History of Costume for the Stage	3

**1**

Prerequisite: no prerequisites. Course is rotated among teams of two faculty members from the core material culture staff. The course explores the field of material culture, introducing the range of approaches and topics within it. Faculty, staff, and professionals from different disciplines and fields are invited to discuss their work and perspective, and discuss current literature.

**2**

The intent of this requirement is to have an intensive small-size seminar to teach the methods used by material culture scholars, a set of tools for analysis, hands-on training and more familiarity with material culture theories, themes and objects.

**3**

Choices should be clustered around a focus. For example, one strategy is to take a range of courses related to a specific geographic area, specialization, or time period. Other students may choose to pursue a cluster of courses that emphasizes nationally emerging specializations within the field of material culture including courses related to museums/exhibitions, historic preservation, archival technology, or product design. Students should work with a material culture faculty member to develop this focus. Other courses can be selected as electives from traditional disciplinary approaches and content, but must be approved by the chair of the Material Culture Advisory Committee. Students must work closely with both their advisor within their home major and an advisor among material culture advisors to assure that both major and certificate requirements are fulfilled.

Students must earn a minimum 2.000 GPA on required certificate coursework. Completed courses listed within the certificate curriculum, whether or not they meet a specific requirement, are included in the calculation of the GPA.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

### LEARNING OUTCOMES

1. Acquisition of skills to describe and analyze objects of multiple types, scales and media that constitute the material world across time and space.
2. Understanding of the complex and multiple ways that objects and people relate in both the past and in the present using trans-disciplinary perspectives.
3. Ability to interpret and otherwise make meaning from objects using methods and theories from multiple disciplines including but not limited to art history, archaeology, anthropology, design, folklore/folklife studies, geography, history, literary studies, landscape history, and science studies.
4. Discernment of the importance of materiality and making in the production and shaping of culture.

5. Fluency in using research resources and tools appropriate for specific kinds of objects.
6. Demonstration of particular skills for object-based research projects, as well as online and in-person exhibitions, using objects and collections to prepare students for careers that include positions in museums, archives, and other professional contexts.
7. Coherent presentation of ideas in multiple media (oral, visual, digital, and written).

## ADVISING AND CAREERS

### ADVISING & CAREER CENTER

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*Note for students who are thinking about declaring the material culture certificate as well as the art history certificate: undergraduate students may request permission to complete both the material culture certificate and the art history certificate but **only one course** can overlap between the two certificates. Please consult with the Art History undergraduate advisor, Teddy Kaul ([ejkaul@wisc.edu](mailto:ejkaul@wisc.edu)), with any questions related to the art history certificate.*

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through individual and group advising and integration of career readiness throughout our curriculum.

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### CAREERS: WHAT CAN MATERIAL CULTURE DO FOR YOU? LIFE-PRACTICE AND CAREERS

Interdisciplinary practice is central to material culture analysis. Significant engagement with material culture can have a noteworthy positive effect on students from a wide range of majors in their preparation for future careers. Understanding principles of design, analyzing the cultural meaning of physical objects, and gaining knowledge of varied systems of making, distributing, and using artifacts and consumer goods throughout

history are all broadly applicable learning outcomes. The curricula of the 21<sup>st</sup> century often place extra value on science and technology, to the detriment of the study of the arts and humanities. The Material Culture Program helps integrate these and other disparate spheres into a university education. One undergraduate student summed it thus:

I ended up being able to use what I learned in material culture for my research in human computer interaction and design. I think having a background in material culture strengthened my skills as a user experience designer (which is what I will be doing at Intel after graduation).

Erica Lewis, 2016  
Undergraduate certificate student  
Engineering/Materials Design

Other material culture certificate holders have gone on to careers in museums, galleries, historic sites, historic preservation, digital media, design practice, universities, and business. Another former student comments:

Having worked in museums large and small, in education, exhibition design and development, collections, and interpretation—I draw on my background in Material Culture on a daily basis. As a historian, the practice of reading and contextualizing objects as primary sources is essential. But even more than an academic approach, the empathy one develops when learning to understand the world through the stuff of daily life is invaluable to the interdisciplinary collaboration of today's workplace.

Anna Altschwager, 2004  
Assistant Director, Guest Experience  
Old World Wisconsin

## PEOPLE

### CORE FACULTY

Stanley and Polly Stone Professor, Art History

Anna V. Andrzejewski, Professor, Art History

Sarah Carter, Visiting Executive Director, Center for Design and Material Culture

Yuhang Li, Associate Professor, Art History

Marina Moskowitz, Lynn and Gary Mecklenburg Chair in Textiles, Material Culture and Design

Lynn K. Nyhart, Vilas–Bablitch–Kelch Distinguished Achievement Professor, History

Jennifer Pruitt, Assistant Professor, Art History

Sissel Schroeder, Professor, Anthropology

Jonathan Senchyne, Assistant Professor, Library and Information Studies

Sarah Thal, Professor, History

Lee Palmer Wandel, Professor, History

### AFFILIATE FACULTY

William Aylward, Professor, Classics

Nicholas Cahill, Professor, Art History

Preeti Chopra, Associate Professor, Art History

Susan Cook, Director, School of Music

Thomas Dale, Professor, Art History

Sam F. Dennis, Jr, Associate Professor, Landscape Architecture

Colleen Dunlavy, Professor, Department of History

Nan Enstad, Professor, Department of History

Jonathan Mark Kenoyer, Professor, Anthropology

James Leary, Emeritus Professor, Comparative Literature and Folklore Studies

Tom Loeser, Professor, Art

Jung-hye Shin, Associate Professor, Design Studies

## ASSOCIATED MUSEUM PROFESSIONALS

Jody Clowes, Director, James Watrous Gallery

Amy Gilman

Jon Prown, Director, Chipstone Foundation

## TEXTILES AND DESIGN, CERTIFICATE

The certificate in textiles and design allows students from any major to gain a fundamental understanding of the creative and innovative application of textiles and visual design. By nature, textiles are interdisciplinary, weaving together art, commerce, history, culture, technology, material culture, and science. Students will develop artistic and technical skills valuable for both pursuing a professional career in the textile industry and nurturing personal creative interests.

The certificate in textiles and design is an opportunity for students from a variety of disciplines to engage in an in-depth exploration of textiles. Studio courses cultivate a rich understanding of the physical and creative interaction of materials, techniques, and concepts: pattern, networks, woven structures, flexible materials, the interaction of multiples, tactility, color, and imagery. Students have the opportunity to be creative in design studios, using both low-tech handmade techniques and complex high-tech computer-generated systems.

The courses offered in this 12-credit certificate are broad and varied, allowing students to personalize course groupings to best enhance their major and area of interest.

### HOW TO GET IN

All undergraduate are eligible for certificate declaration, except students pursuing textiles and fashion design major. Connect with an Academic Advisor (<https://advising.humanecology.wisc.edu/>) for application information.

## REQUIREMENTS

Code	Title	Credits
<b>Science and Culture</b>		
Select one course:		3
DS 251	Textile Science	
DS 355	History of Fashion, 1400-Present	
DS 430	History of Textiles	
DS 561	Textiles: Specifications and End Use Analysis	
<b>Studio</b>		
Select one course:		2-3
DS 101	Introduction to Textile Design	
DS 153	Sewn Construction I	
DS 154	Sewn Construction II	
DS 215	Patternmaking for Accessories	
DS 227	Textile Design: Printing and Dyeing I	
DS 228	Textile Embellishment I	
DS/ART 229	Textile Design: Weaving I	
DS 327	Textile Design: Manual/Computer Generated Imagery and Pattern	
DS 427	Textile Design: Printing and Dyeing II	
DS 429	Textile Design: Weaving II	
DS 451	Color Theory and Technology	
DS/COMP SCI/ I SY E 518	Wearable Technology	
DS 519	Collection Development	
DS 527	Global Artisans	
DS 528	Experimental Textile Design	
DS 529	Building a Sustainable Creative Practice	
DS 570	Design and Fashion Event Management	
<b>Electives</b>		
Other courses from either Science and Culture or Studio lists to reach 12 credits.		7-8
<b>Total Credits</b>		<b>12</b>

Students must earn a minimum 2.000 GPA on required certificate coursework. Completed courses listed within the certificate curriculum, whether or not they meet a specific requirement, are included in the calculation of the GPA.

## CERTIFICATE COMPLETION REQUIREMENT

This undergraduate certificate must be completed concurrently with the student's undergraduate degree. Students cannot delay degree completion to complete the certificate.

## LEARNING OUTCOMES

1. Demonstrate understanding of fiber properties, structure, techniques and construction.

- Analyze historical, cultural, economic, technological and/or societal role of textiles.
- Students will develop a sensitivity and awareness of material properties through hands-on learning.
- Gain understanding of the creative process by envisioning and implementing original projects.

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## PEOPLE

**For more information, visit the School of Human Ecology Design Studies faculty and staff directory** (<https://humanecology.wisc.edu/staff/sohe-department/design-studies/>).

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

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### CAREER DEVELOPMENT

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### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## TEXTILES AND FASHION DESIGN, B.S.

Textiles and Fashion Design (TFD) is a unique hybrid program that combines a deep understanding of materials and techniques with an academic base of history, science, and contemporary design. The heart of the major lies in the hands-on studio courses where students learn to weave, dye, print, construct, pattern, illustrate, design, and innovate. Going beyond technique, TFD faculty encourage students to intuitively make, analyze and revise, leading to discovery and creative problem solving. Special topics focus on environmental, economic, and cultural sustainability as well as technology and non-traditional entrepreneurship.

Coursework in the TFD program is enhanced by visiting lecturers, special projects with industry partners, and the on-site Helen Louise Allen Textile Collection. Upper-level students in the major are given the opportunity to professionally show their work to a public audience in the fall annual student showcase and the spring fashion show.

Our award-winning students are both highly creative and superb craftspeople engaged in addressing real-world problems and offering sustainable solutions.

### TFD

Our bachelor of science degree (B.S.) in textiles and fashion design (TFD) highlights craft technique as a pathway to creative practice and prepares students for an exciting creative career in design. Studies can focus primarily in textiles or in fashion, but students are encouraged

to experiment in both areas. The program emphasizes interdisciplinary partnerships and encourages learning by doing in studios, outreach projects, and sustainable practices.

Through capstone and thesis experiences in the final year, students are given time and mentoring to create and present their own unique body of work.

## TFD-FIT

For those leaning toward an industry career, our program gives students the option to apply to spend their senior year at Fashion Institute of Technology (<http://www.fitnyc.edu/>) (FIT) in New York City, the hub of the textile and fashion trade. The FIT experience provides students with industry specific skills which, when paired with the creative liberal arts background, makes our graduates highly desirable and often recruited by industry leaders. Students apply to FIT in their junior year. If accepted by FIT, they participate in a visiting student program in one area of focus: Fashion Design, Textile Surface Design, Footwear & Accessories Design, Communication Design Foundation, Advertising and Marketing Communications, Fashion Business Management, Textile Development and Marketing

Upon graduation, students who attend FIT are awarded a bachelor of science (B.S.) degree from the University of Wisconsin–Madison in textiles and fashion design with a named option in FIT. A named option is a formally documented sub-major within an academic major program. Named options appear on the transcript with degree conferral. FIT students also earn an associate of applied science (A.A.S) degree from FIT. Students attending FIT who are considered Wisconsin nonresidents continue to pay out-of-state tuition, even if they reside in the state of New York.

## HOW TO GET IN

## PROSPECTIVE UW–MADISON STUDENTS

All prospective UW–Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Freshmen should declare their intention to pursue the textiles and fashion design (TFD) major when they apply for admission to UW–Madison. In addition, students may indicate interest in the TFD major when registering for Student Orientation, Advising, and Registration (SOAR).

## CURRENT UW–MADISON STUDENTS

### Declaration

- First-semester students may declare SoHE majors.
- All students with fewer than 60 GPA credits, a minimal 2.75 cumulative GPA, and not on probation in their current school/college may declare SoHE majors.

### Application

- All other students must apply through a competitive application process.

For transfer students, sequential courses and courses taught only once a year should be taken into account when calculating time toward completion of the degree, as graduation time may be extended.

Students intending to complete their final year of study at the Fashion Institute of Technology (FIT) must complete an additional application. Only students with a 3.0 or higher GPA in December of their third year in the program are eligible to apply for admission to FIT.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

All Textiles and Fashion Design students complete the School of Human Ecology requirements listed below. Then, students complete the Textiles and Fashion Design requirements OR the Textiles and Fashion Design-FIT requirements.

Code	Title	Credits
<i>Arts and Humanities</i>		
	Literature	3
	Humanities	6
<i>Social Science</i>		
	Physical, Biological and Natural Science	9
<i>Human Ecology Breadth</i>		
	Select one Human Ecology course from CNSR SCI, CSCS, HDFS, or INTER-HE	3
<b>Total Credits</b>		<b>30</b>

# TEXTILES AND FASHION DESIGN REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Design Core</b>		<b>18</b>
DS 101	Introduction to Textile Design	
DS 120	Design: Fundamentals I	
DS 153	Sewn Construction I	
DS 150	Visual Thinking - Pixels and Pencils	
DS 251	Textile Science	
DS 355	History of Fashion, 1400-Present	
or DS 430	History of Textiles	
<b>Textiles and Fashion Design Focus Area</b>		<b>21</b>
Choose either the Fashion Sequence or the Textiles Sequence		
<i>Fashion Sequence (must be taken in this order)</i>		
DS 154	Sewn Construction II	
DS 253	Patternmaking for Apparel Design	
DS 210	Fashion Illustration	
DS 225	Apparel Design I	
<i>Textiles Sequence</i>		
DS 227	Textile Design: Printing and Dyeing I	
DS 228	Textile Embellishment I	
DS/ART 229	Textile Design: Weaving I	
DS 327	Textile Design: Manual/Computer Generated Imagery and Pattern	
Choose 3 additional Textiles & Fashion Design courses for 21 total credits		
<b>Professional Development</b>		<b>5</b>
DS 252	Design Leadership Symposium	
INTER-HE 202	SoHE Career & Leadership Development	
DS 601	Internship	
<b>Depth Courses</b>		<b>15</b>
Choose 9-15 credits from the following courses:		
<i>Textiles &amp; Fashion Design Studio Courses</i>		
DS 319	Cloth to Clothing	
DS 341	Design Thinking for Transformation	
DS 427	Textile Design: Printing and Dyeing II	
DS 429	Textile Design: Weaving II	
DS/COMP SCI/ I SY E 518	Wearable Technology	
DS 527	Global Artisans	
DS 528	Experimental Textile Design	
DS 529	Building a Sustainable Creative Practice	
DS 570	Design and Fashion Event Management	
DS 561	Textiles: Specifications and End Use Analysis	

Other Textiles and Fashion Design Courses (300 level and above)

OPTIONAL: Choose up to 6 credits from the following courses:

<i>Entrepreneurship and Consumer Science Courses</i>	
M H R 322	Introduction to Entrepreneurial Management
CNSR SCI 257	Introduction to Retail
CNSR SCI 555	Consumer Design Strategies & Evaluation
CNSR SCI 561	Consumer Engagement Strategies
CNSR SCI 562	The Global Consumer
CNSR SCI 657	Consumer Behavior
ART 469	Interdisciplinary Studies in the Arts
<b>Capstone Experience</b>	
DS 690	Senior Thesis
DS 519	Collection Development
or DS 529	Building a Sustainable Creative Practice

## TEXTILES AND FASHION DESIGN: FIT OPTION

View as listView as grid

- TEXTILES AND FASHION DESIGN: FIT (FASHION INSTITUTE OF TECHNOLOGY) (P. 1825)

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Have grounding in the history and theory relevant to the human ecological perspective.
2. Have intellectual skills for inquiry, creative thinking, and critical analysis.

3. Have professional skills that prepare them for applying what they have learned to create new knowledge and solve problems in a real world setting.
4. Textiles and Fashion Design students will have the ability to move beyond technique, taking creative risks to develop conceptually cohesive work through advanced knowledge of materials, processes, and an understanding of design principles.
5. Textiles and Fashion Design students will have the ability to participate in professional discussions and critique that are informed by foundational knowledge of fashion and/or textile history, theory, and science.

Literature	3 Depth Course	3
	<b>15</b>	<b>15</b>
		<b>3</b>

**Senior**

Fall	Credits	Spring	Credits
Additional Textiles & Fashion Design Course	3 DS 690		3
Depth Course	3 Depth Course		3
Elective	4 Depth Course		3
Elective	3 Elective		3
	Elective		3
	<b>13</b>		<b>15</b>

**Total Credits 120-122**

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## PEOPLE

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## FOUR-YEAR PLAN

This is a sample four-year plan for Textiles & Fashion Design. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

**Freshman**

Fall	Credits	Spring	Credits
Communications A	3 Communications B		3-4
DS 101	3 Quantitative Reasoning A		3-4
DS 120	3 DS 150		3
DS 153	3 DS 154 or 228 SoHE Breadth		3
	<b>12</b>		<b>15-17</b>

**Sophomore**

Fall	Credits	Spring	Credits
DS 253 or 227	3 DS 251		3
Social Science	3 DS 225 or 229		3
DS 210	3 DS 355		3
or Additional Textiles & Fashion Design Course	or Additional Textiles & Fashion Design Course		
Humanities	3 Social Science		3
Science	3 DS 252		1
INTER-HE 202	1 Ethnic Studies		3
	<b>16</b>		<b>16</b>

**Junior**

Fall	Credits	Spring	Credits	Summer	Credits
DS 430	3 Social Science	3 DS 601			3
or Additional Textiles & Fashion Design Course	Humanities	3			
DS 319 or 327	3 Science		3		
Science	3 DS 519 or 529		3		
Rquantitative Reasoning B (DS 451 recommended)	3 or Depth Course				



## WISCONSIN EXPERIENCE

### INTERNSHIPS

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

### STUDENT ORGANIZATIONS

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW-Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

Learn more about UW-Madison registered student organizations through the Wisconsin Involvement Network (<https://win.wisc.edu/>).

## RESOURCES AND SCHOLARSHIPS

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## TEXTILES AND FASHION DESIGN: FIT (FASHION INSTITUTE OF TECHNOLOGY)

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continue to pay out-of-state tuition, even if they reside in the state of New York.

## REQUIREMENTS

Core requirements for the named option are below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Textiles and Fashion Design: FIT Named Option Requirements</b>		
<b>Design Core</b>		<b>18</b>
DS 101	Introduction to Textile Design	
DS 120	Design: Fundamentals I	
DS 153	Sewn Construction I	
DS 150	Visual Thinking - Pixels and Pencils	
DS 251	Textile Science	
DS 355 or DS 430	History of Fashion, 1400-Present History of Textiles	
<b>Textiles and Fashion Design Focus Area</b>		<b>21</b>
Choose either the Fashion Sequence or the Textiles Sequence		
<i>Fashion Sequence (must be taken in this order)</i>		
DS 154	Sewn Construction II	
DS 253	Patternmaking for Apparel Design	
DS 210	Fashion Illustration	
DS 225	Apparel Design I	
<i>Textiles Sequence (must be taken in this order)</i>		
DS 227	Textile Design: Printing and Dyeing I	
DS 228	Textile Embellishment I	
DS/ART 229	Textile Design: Weaving I	
DS 327	Textile Design: Manual/Computer Generated Imagery and Pattern	
Choose 3 additional Textiles & Fashion Design courses for 21 total credits		
<b>Professional Development</b>		<b>2</b>
DS 252	Design Leadership Symposium	
INTER-HE 202	SoHE Career & Leadership Development	
<b>Fashion Institute of Technology FIT</b>		
Visiting Student Program Courses		30

## HUMAN DEVELOPMENT AND FAMILY STUDIES

The Department of Human Development and Family Studies (HDFS) serves undergraduate and graduate students by offering a bachelor of science in human development and family studies and a Ph.D. in human ecology: human development and family studies. Students and faculty in HDFS are dedicated to improving the quality of life for children, adolescents, and adults by discovering, integrating, applying and disseminating knowledge about lifespan human development, relationships, families, and communities, all in their larger social contexts.

The application of human ecological and interdisciplinary perspectives to solve societal problems and strengthen the well-being of children, adults, and families is a distinctive feature of the department.

## DEGREES/MAJORS/CERTIFICATES

- Human Development and Family Studies, B.S. (p. 1827)

## PEOPLE

For more information, visit the School of Human Ecology Human Development and Family Studies faculty and staff directory. ([https://humanecology.wisc.edu/staff/uw\\_staff\\_type/faculty-staff/sohe-department/hdfs/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/sohe-department/hdfs/))

## RESOURCES AND SCHOLARSHIPS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

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### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

### SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment

are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## HUMAN DEVELOPMENT AND FAMILY STUDIES, B.S.

- Major Overview (p. 1827)
- Certified Family Life Educator (CFLE) (p. 1827)
- Infant Mental Health (IMH) (p. 1827)

The undergraduate major in human development and family studies (HDFS) offers specialized courses in human development from infancy through old age, couples and family relationships, research methods, policymaking, parent-child relations, family health and well-being, parent education and support, and ethnic and cultural diversity in families. In addition to coursework, all students engage in a 150-hour, semester-long internship or high-impact learning experience in a professional setting related to their major and career goals. These settings include community mental health programs, early childhood education, legislative offices, health care agencies, research labs, criminal justice systems, child and family life education, and community-based social justice programs.

The major prepares students for careers in human and family service organizations and for graduate or professional school in a variety of fields including health care, education, family law, counseling, occupational therapy, program evaluation, physical therapy, case management, and the child life profession.

### CERTIFIED FAMILY LIFE EDUCATOR (CFLE)

The National Council on Family Relations (NCFR) provides the Certified Family Life Educator (CFLE) credential, which is recognized in the U.S. and Canada for Family Life Education professions.

The program encourages applications from professionals who have preparation and experience in Family Life Education settings, including formal teaching, research/scholarship, community education, public information and education, curriculum and resource development, health care, military family support, and ministry. CFLEs have a minimum of a bachelor's degree, and many have advanced degrees.

Certification (<https://www.ncfr.org/cfle-certification/become-certified/>) must include graduating from HDFS, which is a CFLE-approved program here at UW-Madison.

Students seeking this designation must complete the following courses: HDFS 262, 263, 425, 471, 474, 501: Skills for Helping Professions, 516, 517, 535, 601, 650, CNSR SCI 273, PSYCH/SOC 453 OR GEN&WS 103.

For additional information, please contact SoHE's Advising & Career Center (<https://sohe.wisc.edu/students/advising/>) or Polina Levchenko (<https://humanecology.wisc.edu/staff/levchenko-polina/>), HDFS Faculty Associate.

### INFANT MENTAL HEALTH (IMH)

The HDFS course concentration in IMH focuses on promoting the social emotional development of children age 0-6 years within the family and community context. It is designed to be compatible with IMH Endorsement by the Wisconsin Alliance for Infant Mental Health (WI-AIMH)—entry level Infant Family Associate Endorsement (<https://waimh.org/endorsement/>).

Please note that one must be a member of the organization and apply for endorsement with references in addition to completing the B.S. in HDFS with course requirements and guidelines (<https://www.allianceaimh.org/endorsement-requirements-guidelines/>) specified below.

Competency areas:

1. Theoretical foundations
  - Any course in HDFS Learning Outcome 1 AND
  - HDFS 471 in Learning Outcome 3 AND
  - HDFS 663 OR HDFS 650 in Learning Outcome 5
2. Law, regulation, and agency policy
  - HDFS 535 in Learning Outcome 4
3. Systems expertise
  - HDFS 469 in Learning Outcome 4 OR
  - HDFS 516 AND 517 in Learning Outcome
4. Direct service skill
  - HDFS 663 in Learning Outcome 5 AND
  - Relevant internship (HDFS 601) and HDFS Professional Development sequence
5. Working with others
  - Any course in Learning Outcome 2 AND
  - HDFS 601
6. Communicating
  - Comm A and Comm B requirements for HDFS major
7. Thinking
  - Any Research Methods Course in Learning Outcome 6 AND
  - Quant A and Quant B requirements for HDFS major AND
  - HDFS 663 in Learning Outcome 5

For additional information, please contact SoHE's Advising & Career Center (<https://sohe.wisc.edu/students/advising/>) or Julie Poehlmann-Tynan (<https://humanecology.wisc.edu/staff/poehlmann-tynan-julie/>), Professor in HDFS.

## HOW TO GET IN

### PROSPECTIVE UW-MADISON STUDENTS

All prospective UW-Madison students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

Students who indicate an interest in human development and family studies (HDFS) on their UW-Madison application will be admitted to the program upon admittance to the university. In addition, students may indicate interest the HDFS major when registering for Student Orientation, Advising, and Registration (SOAR).

### CURRENT UW-MADISON STUDENTS

#### Declaration

- First-semester students may declare SoHE majors.
- All students with fewer than 60 GPA credits, a minimal 2.75 cumulative GPA, and not on probation in their current school/college may declare SoHE majors.

## Application

- All other students must apply through a competitive application process.

The best way for interested students to learn more about declaring or applying to a major is to visit SoHE's advising webpage (<https://advising.humanecology.wisc.edu/academics/apply/>). Additional questions may be addressed by scheduling to meet with an academic advisor (<https://advising.humanecology.wisc.edu/>).

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>Breadth–Humanities/Literature/Arts: 6 credits</li> <li>Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>Breadth–Social Studies: 3 credits</li> <li>Communication Part A &amp; Part B *</li> <li>Ethnic Studies *</li> <li>Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF HUMAN ECOLOGY REQUIREMENTS

Code	Title	Credits
<i>Arts and Humanities</i>		
Literature		3
Humanities		6
<i>Social Science</i>		
PSYCH 202	Introduction to Psychology	3-4
Select 6 credits designated Social Science breadth		
<i>Physical, Biological and Natural Science</i>		
<i>Human Ecology Breadth</i>		
Select a Human Ecology course from CNSR SCI, CSCS, DS, or INTER-HE		
<b>Total Credits</b>		<b>30-31</b>

## HUMAN DEVELOPMENT AND FAMILY STUDIES REQUIREMENTS

A complete list of requirements is below. Students should follow the curriculum requirements in place at the time they entered the major. This requirement list should be used in combination with a DARS report.

Code	Title	Credits
<b>Learning Outcome 1: Lifespan Human Development</b>		
<i>Earlier Lifespan</i>		
Select one of the following: 3		
HDFS 262	Development of the Young Child	
ED PSYCH 320	Human Development in Infancy and Childhood	
PSYCH 460	Child Development	
<i>Later Lifespan</i>		
HDFS 263	Development from Adolescence to Old Age	3
<b>Learning Outcome 2: Family and Community Diversity</b>		
Select one of the following: 3		
HDFS 174	Introduction into Cultural Diversity of Families	
HDFS/ CNSR SCI 465	Families & Poverty	
HDFS 474	Racial Ethnic Families in the U.S.	
<b>Learning Outcome 3: Internal Family Processes</b>		
Select one of the following: 3		
HDFS 471	Parent - Child Relations	
HDFS 516	Stress and Resilience in Families Across the Lifespan	
HDFS 517	Couple Relationships	
<b>Learning Outcome 4: Social Institution Influences</b>		
Select one of the following: 3		
HDFS 462	Infant/Toddler Development & Group Care	
HDFS 464	Play-Development and Role Across the Lifespan	
HDFS 469	Family and Community Influences on the Young Child	
HDFS 535	A Family Perspective in Policymaking	
<b>Learning Outcome 5: Assessment, Prevention, Intervention, and Outreach</b>		
Select one of the following: 3		
HDFS 650	Parent Education and Support Programs	
HDFS 663	Developmental and Family Assessment	
<b>Learning Outcome 6: Understanding Social Science Research</b>		
<i>Statistics</i>		
Select one of the following: 3-4		
SOC/ C&E SOC 360	Statistics for Sociologists I	

STAT 301	Introduction to Statistical Methods	
STAT 371	Introductory Applied Statistics for the Life Sciences	
PSYCH 210	Basic Statistics for Psychology	
<i>Research Methods</i>		
Select one of the following:		3
HDFS 425	Research Methods in Human Development and Family Studies	
PSYCH 225	Research Methods	
SOC/ C&E SOC 357	Methods of Sociological Inquiry	
<b>Professional Development</b>		
HDFS 253	Human Development & Family Studies Leadership Symposium	1
INTER-HE 202	SoHE Career & Leadership Development	1
HDFS 601	Internship	3
Additional high-impact practice course to be approved by the student's SoHE academic advisor <sup>1</sup>		3
<b>Electives</b>		
Select courses to bring degree credit total to 120		
<b>Total Credits</b>		<b>32-33</b>

<sup>1</sup> Examples include service learning course, second internship or research experience, study abroad experience, select upper-level HDFS courses, or undergraduate teaching assistantship experience.

## UNIVERSITY DEGREE REQUIREMENTS

<b>Total Degree</b>	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
<b>Residency</b>	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
<b>Quality of Work</b>	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Knowledge of lifespan human development (including cognitive, social, and emotional development and individual differences) in social and ecological contexts.
2. Knowledge of family and community diversity.

3. Knowledge of internal family processes, including parenting and parent-child relations, couples, and family relationships across generations and family health and wellbeing.
4. Ability to consider and evaluate how children, adults, and individual families affect and are affected by policies, media, or other social institutions.
5. Knowledge about the effective and ethical practice of assessment, prevention, intervention, or outreach for individuals and families.
6. Ability to understand, evaluate, and ethically conduct social science research.

## FOUR-YEAR PLAN

This is a sample four-year plan for Human Development and Family Studies. We encourage all students to consult with their academic advisor to develop an individualized plan that meets their specific needs.

<b>Freshman</b>					
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>		
Communications A	3	Communications B	3-4		
Ethnic Studies	3	PSYCH 202	3-4		
Quantitative Reasoning A	3	Humanities	3		
Science	3	Science	3		
Elective	3	SoHE Breadth	3		
<b>15</b>		<b>15-16</b>			
<b>Sophomore</b>					
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>		
HDFS 253	1	INTER-HE 202	1		
HDFS 262, PSYCH 460, or ED PSYCH 320	3	HDFS 263	3		
Social Science	3	Literature	3		
Humanities	3	Science	3		
Elective	3	Social Science	3		
		Elective	2		
<b>13</b>		<b>15</b>			
<b>Junior</b>					
<b>Fall</b>	<b>Credits</b>	<b>Spring</b>	<b>Credits</b>	<b>Summer</b>	<b>Credits</b>
HDFS 174, 465, or 474	3	HDFS 425, PSYCH 225, or SOC 357	3	HDFS 601	3
Elective	3-4	HDFS 471, 516, or 517	3		
Elective	3	Elective	3		
Elective	3	Elective	3		
STAT 301, 371, PSYCH 210, or SOC 360 (Statistics (Quantitative Reasoning B)	3	Elective	3		
<b>15</b>		<b>15</b>		<b>3</b>	

**Senior**

Fall	Credits	Spring	Credits
HDFS 535, 469, 464, or 462	3	HDFS 650 or 663	3
High Impact Practice-Based Course	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
<b>15</b>		<b>15</b>	

**Total Credits 121-122****ADVISING AND CAREERS****ADVISING & CAREER CENTER**

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**CAREER DEVELOPMENT**

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**PEOPLE**

For more information, visit the School of Human Ecology Human Development and Family Studies faculty and staff directory. ([https://humanecology.wisc.edu/staff/uw\\_staff\\_type/faculty-staff/sohe-department/hdfs/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/sohe-department/hdfs/))

**WISCONSIN EXPERIENCE****INTERNSHIPS**

Internships are a vital part of student career development and a highly valued component of the undergraduate curriculum in the School of Human Ecology. High-quality internships foster student development by bringing theories and classroom-based learning to life in real-world settings. In addition, internships give students the opportunity to explore careers related to their major, gain relevant experience in their field(s) of interest, and develop a better understanding of what is expected in a workplace by performing the tasks of a professional in that field.

For SoHE majors, internships are a requirement of our undergraduate curriculum. Students must have at least a junior standing (54+ credits) in order to pursue a 3-credit internship and must complete a minimum of 150 hours at the internship site. To be eligible, an internship must be educational in nature, directly relate to a student's major and career goals, and be approved by the Advising & Career Center ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

For some SoHE majors, additional course prerequisites may be required. For more information, visit SoHE Internships (<https://advising.humanecology.wisc.edu/careers/internship-requirement/>).

**STUDENT ORGANIZATIONS**

School of Human Ecology student organizations include:

- Apparel and Textile Association (ATA)
- BadgerSense Financial Life Skills
- Community & Nonprofit Leaders (CNPL) of UW–Madison
- Financial Occupations Club for University Students (FOCUS)
- Interior Design Organization (IDO)
- Phi Upsilon Omicron (National Honor Society in Family and Consumer Sciences)
- Student Retail Association (SRA)

For more information about registering as a SoHE student organization, please visit SoHE Student Organizations (<https://go.wisc.edu/sohestudentorganizations/>).

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## HUMAN ECOLOGY – SCHOOL-WIDE

### DEGREES/MAJORS/CERTIFICATES

- Individual Major, B.S. (p. 1831)
- School of Human Ecology Honors (p. 1833)

## INDIVIDUAL MAJOR, B.S.

The individual major is a program for undergraduate students who want to fulfill a specific academic goal that is not easily attained through a major in one or more departments. The major must meet a course of study that involves at least two departments and be targeted at a specific problem or academic interest identified by the student. A student proposal must be submitted and approved by the SoHE Undergraduate Program Council. Students are encouraged to begin working with faculty and advisors in the Advising & Career Center by the end of the sophomore year. Thirty credits must be earned in residence after the term in which the proposal is approved. The major will be guided by a committee of at least three faculty members (with no more than two faculty members from one department).

Individual majors are intended to create a unique program of study that otherwise does not exist on this campus individually or in a combination of majors and certificate programs. Students should carefully explore

all University of Wisconsin–Madison majors and certificate programs before pursuing an individual major. A proposal that essentially parallels an existing SoHE or campus major will not be approved.

Graduates of the individual major earn a bachelor of science in human ecology. The major will match the approved proposal title, which must have a human ecology focus.

## HOW TO GET IN

### ELIGIBILITY

Students must be in good academic standing and have a minimum cumulative GPA of 3.5 to be considered for an individual major. Any interested student should have completed at least two semesters (a minimum of 24 credits) in residence before submitting an application. Ideally, proposals will be made by the end of sophomore year or the beginning of junior year.

### PROPOSING AN INDIVIDUAL MAJOR

After discussing their proposed plan with a SoHE advisor and ensuring they meet the application qualifications, students will begin building a faculty committee and developing a proposal. An individual major must be composed of at least two different SoHE academic departments. If a third department is selected, it may be from in or outside of SoHE. Students should develop a one-page abstract to share with faculty as they work to build their committee. Once the committee is formed, the student will select one committee member as the major advisor. The major advisor must be from the SoHE department in which the majority of courses for the program will be taken. The student will work with the faculty committee to develop the proposal and select all required courses for the individual major, the majority of which must be completed in SoHE. The student will then submit a formal proposal to the SoHE Advising & Career Center to be forwarded for action to the SoHE Undergraduate Program Council, which meets throughout the academic year.

Please contact the SoHE Advising & Career Center for the complete individual major proposal instructions.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## INDIVIDUAL MAJOR REQUIREMENTS

The student will work with the faculty committee to develop the individual major proposal and select all required courses, the majority of which must be completed in SoHE. If the Individual Major is approved by the SoHE Undergraduate Program Council, the student will complete all required courses as outlined with the faculty committee.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## FOUR-YEAR PLAN

There is no standard four-year plan for the Individual Major.

## ADVISING AND CAREERS

Students interested in pursuing an individual major should first meet with a SoHE academic advisor to ensure program eligibility and to discuss their area of interest and rationale. Appointments should be made by contacting the SoHE Advising & Career Center at 608-262-2608.

## PEOPLE

Visit the School of Human Ecology faculty and staff directory ([https://humanecology.wisc.edu/staff/uw\\_staff\\_type/faculty-staff/](https://humanecology.wisc.edu/staff/uw_staff_type/faculty-staff/)).

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## SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

The School of Human Ecology awards many merit and need-based scholarships each year. The deadline to apply for scholarships is typically late January. To be eligible for these awards, scholarship recipients must be registered as full-time SoHE students.

Students who experience emergency financial situations may inquire about the availability of short-term loans through the SoHE Advising & Career Center. In addition, university scholarships, loans, and employment are available through the Office of Student Financial Aid (<https://financialaid.wisc.edu/>) (333 East Campus Mall; 608-262-3060).

## SCHOOL OF HUMAN ECOLOGY HONORS

The School of Human Ecology Honors Program provides an opportunity for students to pursue coursework in greater depth than is possible in regular courses. The honors program is a school-wide program open to students regardless of major. Honors program members are eligible to enroll in courses offered for honors-only credit, to participate in campus wide activities for honors program students, and to apply for special research-funding opportunities. Upon completion of the honors program requirements and degree requirements, the student will receive an honors degree from the School of Human Ecology. The transcript for a SoHE honors student who does not complete all honors degree requirements will have the honors designation next to honors courses completed.

## HOW TO GET IN

Students interested in pursuing the School of Human Ecology Honors Programs should first meet with an academic advisor in the Advising & Career Center. Admission decisions are made by a faculty committee in the appropriate SoHE department and will take into consideration the eligibility criteria listed below and the strength of the written application.

- *Freshmen.* Admission as a newly enrolled freshman requires a 3.3 grade point average or high school class ranking in the top 10% and a composite ACT score of 27 or a combined SAT score of 1100.
- *Continuing Students.* Admission of currently enrolled students requires a minimum 3.3 grade point average. Students, both transfer and those currently enrolled in SoHE, may apply for entrance to the Honors Program in any semester of their undergraduate career after the 3.3 minimum grade point average has been established.

## REQUIREMENTS

In addition to the School of Human Ecology degree requirements, honors program students must:

- Complete a total of at least 24 honors credits, with at least 12 of the honors credits obtained in Human Ecology coursework.
- Maintain a minimum grade point average of 3.3 in all UW-Madison courses to continue in the honors program.
- Receive a grade of B or above in a course to receive honors credit for that course.
- Complete an honors thesis for at least three, but no more than six, senior honors thesis credits. Students are strongly recommended to consider registering for two semesters of senior honors thesis credits for adequate time to plan and complete the senior honors thesis. Senior honors thesis credits may count toward the 12 credits minimum of Human Ecology honors credits.

## ADVISING AND CAREERS

### ADVISING & CAREER CENTER

The Advising & Career Center (ACC) fosters undergraduate students' personal, academic, and professional development. Through advising, academic planning, and career education, we support students as they navigate the college experience—from exploring our majors as prospective students to becoming SoHE alumni.

### ACADEMIC ADVISING

Each SoHE student is assigned to an academic advisor in the Advising & Career Center. SoHE academic advisors support academic and personal success by partnering with current and prospective SoHE students as they identify and clarify their educational goals, develop meaningful academic plans, and pursue their own Wisconsin Experience.

To explore academic advising resources or schedule an appointment with a SoHE academic advisor, visit Advising in SoHE ([https://go.wisc.edu/acc\\_office/](https://go.wisc.edu/acc_office/)).

### CAREER DEVELOPMENT

Active engagement in the career development process is a vital component of a student's personal growth in college and future success as a lifelong learner, professional, and global citizen. SoHE career advisors help prepare students for life post-graduation through advising and integration of career readiness throughout our curriculum.

To explore career development resources or schedule an appointment with a SoHE career advisor, visit Career Development (<https://advising.humanecology.wisc.edu/careers/scheduling/>).

## SCHOLARSHIPS AND OTHER FINANCIAL RESOURCES

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## SCHOOL OF NURSING

The School of Nursing (<https://nursing.wisc.edu/>), established in 1924, is the leading nursing research institution in Wisconsin and a crucial part of the state's health care system.

The school offers a full array of degree programs enrolling more than 1,000 students—the bachelor of science in nursing (BSN), the doctor of nursing practice (DNP), and the doctor of philosophy in nursing (Ph.D.), along with several graduate-level certificate programs.

At the undergraduate level, degree options include the Traditional BSN, a four-year degree program; the Accelerated BSN, a 12-month program for second-degree candidates; and the RN to BSN (BSN@Home) program, for registered nurses who hold an associate's degree in nursing and wish to earn the baccalaureate degree. Options exist for honors study in the major, as well as joint programs whereby students can earn the master of public health along with the BSN or transition directly to the Ph.D. program via the Early Entry Ph.D. Option.

Student life pairs the educational and social resources of a large, world-class university with a supportive environment at the school. Students receive comprehensive support services related to advising, program planning, clinical placements, career services, financial aid, and post-graduation credentialing.

World-renowned facilities for clinical practice and research are available in and around Madison. These include University of Wisconsin Hospital and Clinics, American Family Children's Hospital, UW Carbone Cancer Center and William S. Middleton Memorial Veterans Hospital; hospitals and clinics in urban and rural settings; nursing homes; day-care centers; and public health agencies. The university's location in Wisconsin's capital offers additional opportunities in state government and policy making.

On campus, Signe Skott Cooper Hall, the School of Nursing's new facility, has state-of-the-art classrooms, simulation labs, meeting and research facilities, and social gathering spaces in an environment dedicated to the health and wellness of students, faculty, staff and the communities and populations we serve.

The school's mission is to develop leaders for the profession and society—we make discoveries, enhance systems, and improve health through research, education, and practice.

## DEGREES/MAJORS/CERTIFICATES

- Nursing, BSN (p. 1842)
- Nursing, BSN (Accelerated Program) (p. 1847)
- Nursing, BSN (Collaborative Program) (p. 1851)

## PEOPLE

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**ENTERING THE SCHOOL****ADMISSION TO UW–MADISON**

All prospective UW–Madison nursing students must apply through the central Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/>).

**PRE-NURSING FRESHMEN**

Students who indicate interest in the nursing major on their UW–Madison application will be admitted to the School of Nursing as pre-nursing (PRN) students. In addition, students may indicate interest in the nursing major when registering for Student Orientation, Advising, and Registration (SOAR). The School of Nursing is the academic home for pre-nursing students, providing orientation, academic advising, academic support, etc., while students complete nursing prerequisite courses and general education requirements in preparation to apply to the nursing major. Most pre-nursing students apply to the nursing major midway through their sophomore year to enter the two-year Traditional BSN program as juniors.

**PRE-NURSING TRANSFERS**

Students may transfer into UW–Madison as pre-nursing students. As with pre-nursing freshmen, transfer students have an academic home in the School of Nursing as they work to complete prerequisites and general education requirements in preparation to apply to the two-year Traditional BSN program.

**SECOND-DEGREE CANDIDATES**

Students seeking to earn a second degree in nursing can apply directly to either the Traditional BSN program or the Accelerated BSN program upon completing necessary admission requirements (see details below). Second-degree candidates must be admitted directly into the nursing program; they cannot enter UW–Madison as pre-nursing students.

**ADMISSION TO THE NURSING PROGRAM****TRADITIONAL BSN**

As students complete the requirements to be eligible to apply to the nursing program, they apply to the two-year Traditional BSN program. To be eligible to apply, students must complete the necessary prerequisite courses and have the minimum 2.75 cumulative and prerequisite GPAs; complete details on the Traditional BSN admission requirements and application process can be found on the Traditional BSN admission page (p. 1842) of this *Guide*.

**ACCELERATED BSN FOR SECOND-DEGREE CANDIDATES**

Second-degree candidates can apply for the Accelerated BSN program. This is a 12-month intensive baccalaureate program that offers the quickest route to licensure as a registered nurse (RN) for students who have already completed a bachelor's degree or graduate degree in a non-nursing discipline. Students must complete nursing prerequisite courses and the university General Education Requirements, and have the minimum GPAs, to be eligible to apply. Complete details on the accelerated BSN admission requirements and application process can be found on the Accelerated BSN admission page (p. 1847) of this *Guide*.

**RN TO BSN (BSN@HOME)**

Registered nurses who have an associate's degree or diploma in nursing can apply to enter the BSN@Home program to earn their bachelor's degree in nursing (BSN). There are GPA minimums and course requirements necessary for admission eligibility. These details are included on the BSN@Home admission page (p. 1851) of this *Guide*.

**CURRENT UW–MADISON STUDENTS**

Students with at least a 2.75 cumulative and nursing prerequisite GPA may transfer into the School of Nursing as pre-nursing (PRN) students. Students who are not in the School of Nursing may also apply for the Traditional BSN program without being pre-nursing students. Transfer requests (i.e., classification changes) must be made before the twelfth week of the semester in order to be applied to that semester. Requests made after the twelfth week will take effect at the start of the following semester. For more information and to request a classification change to PRN, students should contact the nursing Office of Academic Affairs at 608-263-5202 or [academic.affairs@nursing.wisc.edu](mailto:academic.affairs@nursing.wisc.edu).

**POLICIES AND REGULATIONS**

The students, faculty, administration, and staff of the School of Nursing are part of the University of Wisconsin–Madison's academic community, and as such, are subject to the policies, rules, and regulations of the university. In addition, the school and its respective programs may, as deemed necessary, develop their own policies and procedures to augment those of the university. Following are the specific School of Nursing policies and regulations that expand upon or differ from the policies of the university as a whole.

**ACADEMIC STATUS****Academic Actions (Warning, Probation, Drop)**

Every student (pre-nursing and nursing) is expected to maintain at least a 2.5 GPA on all work carried, whether passed or not, in each semester or summer session. Students who maintain this average are considered in **good academic standing**. Failure to earn this minimum GPA will result in the academic action of **warning**, **probation**, or **dropped** (academically dismissed). Students must be in good academic standing in order to be eligible for graduation.

**If not on warning and:**

1. Earns a GPA in a semester or summer session of 1.75–2.49 = warning
2. Earns a GPA in a semester or summer session of less than 1.75 = probation

**If on warning and:**

1. Earns a GPA in a semester or summer session of 1.75–2.49 = probation
2. Earns a GPA in a semester or summer session of less than 1.75 = dropped from the program

**If on probation and:**

1. Earns a GPA in a semester or summer session of 2.5 or above but cumulative GPA remains under 2.5 = continued probation
2. Earns a GPA in a semester or summer session of less than 2.5 or a nursing cumulative GPA below 2.5 = dropped from the program

In addition to the academic actions detailed above, nursing (NUR) students are placed on probation if they:

1. Earn a grade of F or NC in any nursing course, and/or
2. Earn a nursing cumulative GPA below 2.5

Any student on academic action will automatically be cleared of action status when the semester GPA is 2.5 or above and the cumulative GPA is 2.5 or above; and if NUR or NCP (i.e., BSN@Home) classification, the nursing cumulative GPA is at least 2.5 or above.

**Dean's Honor List**

The purpose of the Dean's Honor List is to recognize superior academic achievement of undergraduate students. Students must achieve a minimum GPA of 3.75 on a semester load of not fewer than 12 credits in order to be placed on the Dean's Honor List. A notation of *Dean's Honor List* will appear on the student's grade report and transcript. Students who earn a semester GPA of 3.25–3.74 on 12 or more credits will receive a congratulatory statement on their end-of-semester grade report form.

**English as a Second Language**

All nursing students must be proficient in English to provide safe patient care and to be successful academically. Students facing challenges in these areas may be referred by self-identification, a faculty member, or advisor to support services. Although limited English proficiency in itself is not a reason for dismissal, it can interfere with a student's ability to complete course requirements, leading to failure to progress or meet program requirements.

**Good Academic Standing**

To be in good academic standing, students must maintain:

- a cumulative GPA of 2.5 or above, and
- a cumulative GPA of 2.5 or above on all nursing courses completed, and
- a GPA of 2.5 or above in the semester just completed

**Graduating with Distinction**

Graduation with Distinction will be noted on the transcript of students who earned 60 or more credits at UW–Madison and a GPA that places them in the top 20 percent of those graduating from the School of Nursing that term.

**Satisfactory Academic Progress**

The time required to complete the program depends on the sequence of courses, plan of study, and placement availability in nursing courses. Students may complete the program in four years; however, additional semesters or summer sessions may be needed to fulfill requirements. If requirements for the degree have not been completed within five years after admission to the nursing major, the student's academic record will

be reviewed by the Office of Academic Affairs to establish additional requirements, if appropriate.

**PROGRESSION REQUIREMENTS**

Students must successfully complete all courses for each term before proceeding to the next term. Successful course completion in the School of Nursing requires students to earn a grade of C or Credit/CR (in the clinical course that are offered on a Credit/No Credit basis) in each required nursing (N#) course. Any student who earns a grade below C or does not receive credit for a clinical course must repeat the course and earn a C or higher (or CR in a clinical course) in order to progress in the program. Because nursing courses are not offered every semester, a student who does not successfully complete one or more courses during a term will fall off standard progression and will complete a modified program plan with an extended time to degree.

**APPEALS, GRIEVANCES AND PETITIONS****Student Appeals and Grievance Procedures**

Students who feel that they have been treated unfairly have the right to question this treatment and receive prompt hearing of the grievance. Before instituting an appeal or grievance, students should discuss their particular situations with an appropriate staff member, e.g., faculty member, assistant dean, associate dean, or adviser.

**Section One: Appeals**

Appeals are limited to requests to continue in the curriculum after being dropped from the program for academic reasons.

**Procedure  
Filing Appeal**

Undergraduate Student: A written appeal must be filed with the Assistant Dean for Academic Programs within 10 working days of the date of the letter notifying the student of the decision to discontinue the student in the program, or the right to appeal is waived. The appellant (student) must submit to the Assistant Dean the following information:

1. A written statement addressed to the Chairperson of the appropriate appeals committee specifying:
  - Precise grounds on which the appeal is based.
  - Circumstances associated with the need to appeal.
  - Arguments supporting the appeal.
  - Description of proposed remedial actions to be taken to improve the student's academic performance.
2. The appellant may also submit letters of support from persons knowledgeable about the appellant's current and/or past academic work and/or other matters related to the appellant's academic performance. Any such letters must be submitted to the Assistant Dean by the same deadline.

**Appeals Committee**

Undergraduate Student: For the purposes of hearing the appeal, the Assistant Dean will arrange an appeals committee that consists of at least three School of Nursing faculty members from the Undergraduate Admissions and Progression Committee. The Assistant Dean will collect the information relative to the appellant's academic situation and forward the information to the Appeals Committee.

Appeals Committee Meeting

- Within 15 working days of the filing of the appeal, the Appeals Committee will schedule a meeting date for the purposes of hearing the appeal.
- Appellant must appear before the Appeals Committee to present the appeal. Appellant may have a support person accompany him or her to the meeting with the Appeals Committee. Appellant must address the Appeals Committee under all circumstances. Appellant's chosen support person is limited to providing advice and support to appellant. No fewer than three working days prior to the meeting with the Appeals Committee, the appellant shall identify to the Committee the individual's appellant wishes to be present at the meeting for the purpose of providing the Appeals Committee with information about the appeal.

The Appeals Committee is authorized to decide the appeal and is responsible for the following:

1. Reviewing all data presented by the Appellant and others.
2. Discussing the argument presented by Appellant and inviting Appellant to contribute to the discussion.
3. Limiting statements of appellant and other individuals where information being presented is irrelevant, unduly repetitious, or disrespectful.
  - Deciding the appeal and providing a written decision, including the reasons therefore, to the Appellant and the appropriate Assistant Dean within 15 working days of the Appeals Committee meeting. The written decision shall identify and include where appropriate:
    - Appellant's stated reason for the appeal
      - Action taken by the Appeals Committee
    - Stipulations and recommendations for appellant's continuation in program (where appeal granted)
      - Rationale for decision
      - Names of individuals present at the hearing
    - Notice of appellant's right to appeal the Appeals Committee decision to the Associate Dean for Academic Affairs.
  - 4. If the appeal is granted, the Appeals Committee will discuss with the Appellant any stipulations (binding) and recommendations (non-binding) for continuation in the program.

### Review of Appeals Committee Decision

1. A written request for review of the Appeals Committee Decision by the Dean of the School of Nursing or the Dean's designee must be submitted to the Associate Dean for Academic Affairs within 20 working days of the date of notification of the Committee's initial decision. The request must state the specific grounds for appeal which are limited to:
  - School policies were incorrectly applied;
  - Decision is contrary to state or federal law;
  - Proper appeal procedures were not followed; or
  - Unfounded, arbitrary, or irrelevant assumptions of fact regarding the appellant's performance were made by the Appeals Committee. Appellant must also identify the specific aspects of the Committee decision that he or she believes meet the criteria cited as a basis for appeal.

The Dean or the Dean's designee may meet with the appellant to discuss the request for review.

a. Copies of the information submitted to the Appeals Committee and the Appeals Committee decision shall be provided to the Dean or the Dean's designee for review. Only facts and information presented to the Appeals Committee may be introduced to and considered by the Dean or the Dean's designee.

b. The burden of proof shall be on the student to demonstrate by a preponderance of the evidence that the Appeals Committee's decision was the result of one or more of the above bases for appeal.

c. The Dean or the Dean's designee shall notify Appellant and the Appeals Committee in writing within 30 working days of receipt of the request for review of the Appeals Committee decision or the appellant's meeting with the Dean's or Dean's designee, whichever is later, stating the action on the appeal and the grounds for the action taken.

d. The decision by the Dean or the Dean's designee on review is final.

### Section Two: Grievances Informal Resolution

Any student in the School of Nursing who believes that he or she has been treated inequitably is encouraged to resolve the matter informally. The student should first talk with the person or group at whom the grievance is directed in an attempt to resolve the issue informally. The student may contact the Associate Dean for Academic Affairs for assistance in resolving the matter informally. The student may also contact the following groups for assistance in reaching an informal resolution and/or information regarding other possible formal procedures to resolve the matter.

1. Contact the UW-Madison Equity and Diversity Resource Center for information and assistance regarding discrimination or disability issues.
2. Contact the Dean of Students for information about resources for addressing student concerns.

### School of Nursing Grievance Procedure:

The grievance procedure is available to resolve student concerns regarding inequitable treatment that have not been satisfactorily resolved through the informal resolution process or where the student believes that informal resolution would not be productive. The grievance procedure is described below. Through the grievance process, the student may be accompanied by a support person. The use of this grievance procedure shall not prevent the student from seeking redress through another administrative or legal process.

1. To initiate the formal grievance procedure, the student must submit his or her grievance, in writing, to the Associate Dean for Academic Affairs.
2. The written grievance shall include:
  - a statement that the student wishes a review of the situation by a Grievance Committee;
  - the identification of the person or group at whom the grievance is directed;
  - the specifics of the perceived inequitable treatment;

- evidence in support of the student's belief that he or she has been treated inequitably; and
- the outcome or resolution desired by the student.

3. A grievance must be initiated no later than 20 calendar days from the time the student knew or could reasonably have been expected to have known of the circumstances giving rise to the grievance. Initiation of the informal procedure described above within the 20- day period will extend the deadline for initiating the grievance to 40 calendar days from the time the student knew or could reasonably have been expected to have known of the circumstances giving rise to the grievance.

4. Within 30 calendar days after receiving the grievance, the Associate Dean for Academic Affairs shall arrange for a committee meeting. The Committee may request a written response from the person or group at whom the grievance is directed, may ask for additional information from any or all parties involved, may request that the parties involved appear before the Committee, and/or may take other steps in attempting to resolve the grievance.

5. Within 60 calendar days after receiving the grievance from the Associate Dean for Academic Affairs, the Committee shall send a written report of the Committee's recommendations to the Associate Dean for Academic Affairs. The student will also receive a copy of the report. The report shall include notice to the student of his or her right to appeal the Committee's recommendation to the Dean of the School of Nursing.

6. A student wishing to appeal the Committee's recommendation to the Dean of the School of Nursing must submit a written appeal to the Dean within 10 calendar days of the date of the Committee's report. The request must state the specific bases for appeal and identify the specific aspects of the Committee's recommendation that he or she believes are the subject of the bases for appeal. Where an appeal is filed with the Dean, a copy of the Committee's report shall be provided to the Dean for review. Only facts presented to the Committee may be introduced to and considered by the Dean. The Dean shall notify the appellant and the Committee in writing within 30 calendar days of receiving the written appeal stating the action on the appeal and the grounds for the action taken.

### Section Three: Course Grade Appeals Process

If a student believes s/he has been awarded a grade for a course that does not adequately represent her/his performance in the course, they should speak with the course faculty member in an effort to attempt to resolve the issue informally. This must be done within 10 working days of receipt of the grade. During this informal process both student and faculty may consult with the Associate Dean for Academic Affairs to seek resolution of the issue.

If the student remains dissatisfied with the grade, the student has the option to initiate the formal Grievance procedure. To do this, the student must submit the grievance, in writing, to the Associate Dean for Academic Affairs within 10 working days. The Associate Dean will appoint a committee to hear the grievance. The decision of the committee is final. There is no further appeal.

### Petition for Special Consideration

Nursing students may use the Petition for Special Consideration ([https://uwmadison.co1.qualtrics.com/jfe/form/SV\\_07Y6YZUOYXJnQ2O/](https://uwmadison.co1.qualtrics.com/jfe/form/SV_07Y6YZUOYXJnQ2O/)) to request an alternative or exception to an academic rule, regulation, procedure, or requirement.

## CLINICAL/EXPERIENTIAL LEARNING COURSES

All nursing students are required to complete credit hours in the clinical setting under the supervision of a nursing professional. In the School of Nursing, the term *experiential learning* is used to describe the clinical course experience. These clinical experiences support the mission of the School of Nursing, integrating practice and coursework, to provide a comprehensive nursing education. There are some policies specific to experiential learning courses:

### Compliance Requirements

The School of Nursing is committed to ensuring all nursing students are compliant with national and state guidelines for personnel providing nursing care, as well as additional/specific requirements mandated by the school's clinical affiliates as set forth in the clinical affiliation agreements. Therefore all nursing students are required to be in full adherence to the school's compliance program while enrolled in the nursing program. The school's compliance program includes immunizations, trainings, and a background check. Students will be held accountable for complying with the clinical eligibility requirements prior to entering the program and throughout their program of study. All students are required to keep their compliance documents up to date as an essential part of their professional responsibility for patient safety. Review the Nursing Student Compliance Program (<https://students.nursing.wisc.edu/clinicals-compliance/compliance/>) for complete details.

### Clinical Placements

Students are assigned to clinical placement sites based on the faculty's selection of clinical sites specific to the learning objectives of the course, site characteristics, and availability. Students need to be prepared to travel up to 90 miles from the School of Nursing and have varied schedules including evenings, nights and weekends. Clinical shifts may be 4-12 hours long. The School of Nursing secures clinical placements for all students who are eligible. Students are not asked to nor allowed to arrange their own clinical placements.

### Clinical Hour Completion Within the Term/Rotation

Experiential learning/clinical work required for School of Nursing courses must be completed during the term or session of enrollment. These official terms and dates are when the faculty have effort allocated to course instruction and also when our clinical partners have agreed to engage with students in clinical rotations. Per the university's [Academic Calendar \(https://secfac.wisc.edu/academic-calendar/\)](https://secfac.wisc.edu/academic-calendar/), there are three terms each academic year: fall, spring, and summer. Each term has an official date instruction begins and last class day. In addition, some clinical courses are broken down into shorter rotations within a term, typically an eight-week session. Clinical work and clinical hours must be completed between these term/session/rotation dates. It is not an option to start clinical work prior to the first day of instruction or to complete clinical work after the last day. Exceptions may be made in the case of extenuating circumstances or if a student is assigned an Incomplete grade for the course. Any requests for an exception to this policy should be directed to the course instructor who will review the request with the Director of Clinical Practica to determine its appropriateness and feasibility.

### Transportation

The School of Nursing recognizes that students need educational experiences beyond those available in hospitals in Madison, Wisconsin. In answer to this educational need, and in order to secure enough clinical sites for all students, the school places its students in a variety of venues in and beyond Madison. This includes ambulatory sites, clinics, rehabilitation centers, home health agencies, geriatric facilities, school

districts, nursing homes, etc. This gives our students comprehensive exposure to a broad range of patients, illness, and care. Nursing students are responsible for arranging their own transportation to and from their clinical sites. First-year clinicals are accessible by public transportation from Signe Skott Cooper Hall and other points in Madison. Second-year clinicals require travel to and from an agency, as well as to and from homes, schools, and other sites. Locales may be up to 90 miles from Madison. Therefore, second-year nursing students are required to have (1) a valid driver's license, and (2) individual access to a car. Students are responsible for all transportation costs incurred, including gas and parking fees. Students with extenuating circumstances that have an impact on their clinical transportation options (e.g., driving/medical restrictions) should use the Petition for Special Consideration (<https://nursingstudentnet.wiscweb.wisc.edu/wp-content/uploads/sites/222/2017/07/petition-spec-consideration-ug.pdf>) to request an accommodation or exception to the transportation policy. The petition must be submitted on/by March 1 for clinical placements during the next fall term and on/by November 1 for the next spring term placements. These deadlines are firm, as a petition must be reviewed in advance of clinical assignments. There is no guarantee the school will be able to honor such requests/conditions, and exceptions are granted in very rare circumstances.

### Uniforms

Nursing students are required to purchase the approved School of Nursing uniform. The uniform consists of a white top and navy pants. The white top, embroidered with the School of Nursing logo, is available in two styles and the pants will be available in three styles. Lab coats embroidered with the school logo are also required and are worn when students are on their clinical units doing clinical preparation and during most community clinical experiences. In addition to the uniform requirements, there are also professional appearance guidelines (<https://students.nursing.wisc.edu/clinicals-compliance/clinical-information/>) for students.

### Unsafe Clinical Performance

A student who demonstrates unsafe nursing practice that jeopardizes the client's or family's physical or emotional welfare may be dismissed at any time from the clinical area. Unsafe clinical practice is defined as any behavior determined by faculty or a preceptor to be actually or potentially detrimental to the client or to the healthcare agency. Unsafe clinical practice can include behaviors related to physical or mental health problems; use of alcohol, drugs, or chemicals; lack of preparation for clinical; or deficits in problem-solving skills. Reports of unsafe clinical performance will be routed through the course professor and/or the course coordinator to the Associate Dean for Academic Affairs who will work with the faculty and student to determine the appropriate outcome, which may include immediate removal from the course (i.e., administrative drop) and subsequent implications for academic progression.

### Student Invasive Procedures

During clinical laboratory classes, experiential learning sessions, and/or at any other time, students may not practice invasive procedures on themselves, other students, faculty, preceptors, staff, and/or any other unauthorized individuals. This includes, but is not limited to, any invasive procedures that require needles, syringes, and/or intravenous supplies; nasogastric tube insertion; catheterization; etc. During some non-invasive experiences, such as physical assessment, listening to a heartbeat, or taking a blood pressure, students may be asked to act as practice participants. If a student has any objection to providing this experience, they should notify the instructor immediately so that an alternate experience can be provided.

## COURSES AND ENROLLMENT

### Enrollment

The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit. Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc.

Students are strongly encouraged to consult with an academic advisor or the academic dean in the School of Nursing prior to initial enrollment and before making any changes to enrollment. Exceptions to or extensions of the university deadlines may only be requested via the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>).

### Attendance

The School of Nursing expects that students recognize they have entered a profession in which their commitment to full participation in the learning environment is an essential component of what will become a style of life-long learning. Regular class attendance is a student obligation and students are responsible for all the work of all educational activities. Students should not expect to be excused from required coursework for personal/family events, work obligations, or because of non-compliance with School of Nursing or clinical agency health and onboarding requirements. In extraordinary circumstances, an absence may be granted at the discretion of the course instructor. This might include an absence due to personal crisis, military or civic obligation, authorized university activity, religious observances, or health concerns that affect the student's ability to safely care for patients. In most cases, students will be required to provide documentation regarding the absence.

### Didactic Course Attendance

In most didactic courses, attendance and/or participation are factored into the grading process. Absences may place students in jeopardy of not meeting course learning outcomes and thus successfully completing the course. If this occurs, the instructor will consult with the Undergraduate Program Director and/or the Assistant Dean for Academic Affairs to determine the appropriate course of action, which may include being removed (i.e., administratively dropped) from the course. Students should review each course syllabus for specific policies related to absences in that course and make-up experiences, if applicable.

### Experiential Learning Attendance

It is the expectation that students attend all Experiential Learning activities as clinical learning is essential to the completion of the nursing program. If a student must miss an Experiential Learning session due to an extraordinary circumstance, a decision as to whether the student will make up the experience/hours will be based on the student's progress in meeting course learning outcomes. The instructor, in consultation with the Course Coordinator (if applicable), will determine if the absence will be made up and the nature of the make-up experience. The instructor/Course Coordinator will consult with the Undergraduate Program Director and/or the Assistant Dean for Academic Affairs in situations where absence is placing the student's success in the course at risk. A student who misses more than 7.5 percent of Supervised Experiential Learning hours, as specified in the course syllabus, for any reason will be removed (i.e., administratively dropped) from the course for as the result of not being able to meet course learning outcomes. Students should review each course syllabus for specific policies related to absences in that course and make-up experiences/hours, if applicable.

### Credit/No Credit Courses

Some courses are designated as being offered on a Credit/No Credit basis. The transcript for the course will indicate either CR (meaning the student earned credits for the course) or N (meaning the the student did

not earn any credit for the class). Students may not take such courses on any other basis.

### Concurrent Registration and Enrollment

In some rare circumstances, and only with prior approval of the academic dean, students may enroll to earn degree credit concurrently at UW–Madison and any other accredited postsecondary school, including the UW–Extension. Requests for approval should be made prior to the end of the second week of classes of the semester in which dual registration is desired. Courses must be completed during the semester in which concurrent enrollment is allowed. To request permission for concurrent enrollment, submit the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>).

### Drop Notation

The Drop (DR) notation appears on students' records if they drop a class or classes after the last day to drop courses or withdraw without a DR or W grade notation appearing on students' transcripts. For the specific deadline for dropping classes so a DR will not appear on a student's records, see *Deadlines at a Glance* ([http://www.registrar.wisc.edu/spring\\_deadlines\\_at\\_a\\_glance.htm](http://www.registrar.wisc.edu/spring_deadlines_at_a_glance.htm)) on the Office of the Registrar website. Please note that the School of Nursing does not backdate drops to erase them from a student's academic records or extend the drop deadline so that the DR will not appear.

### Dropping a Nursing Course

A student who drops a nursing (N#) course may reenroll in the course when space is available. A student who drops a nursing course a second time is not eligible for the course a third time.

### Independent Study

Students are responsible for identifying their area of interest or question, establishing objectives for their learning experience, and developing a learning contract with the faculty member. All independent study requires the consent of the instructor. Approval forms are available on the forms page (<https://students.nursing.wisc.edu/policies-forms/forms/>) within the School of Nursing Student Site.

### Registration Changes

The Office of the Registrar publishes university deadlines for adding and dropping individual courses, withdrawing (from all courses), and selection options such as pass/fail and audit. Changing enrollment can have consequences for academic standing, tuition, progress toward degree, etc.

Students are strongly encouraged to consult with an academic advisor or the academic dean in the School of Nursing prior to initial enrollment and before making any changes to enrollment. Exceptions to or extensions of the university deadlines may only be requested via the Petition for Special Consideration (<http://academic.son.wisc.edu/studentnet/forms/petition-spec-consideration-ug.pdf>).

### Reentry

Any student who leaves the School of Nursing and wishes to return after an absence of one semester or more must file a reentry application with the UW–Madison Office of Admissions and Recruitment. Permission to reenter is dependent on program capacity, previous academic standing, and length of absence. Immediate placement in required nursing courses is not assured. Students seeking reentry to the baccalaureate program who have left on academic action must be reviewed by the Office of Academic Affairs. If readmission is granted, academic requirements may be specified to insure currency in nursing knowledge and skills prior to enrolling in clinical nursing courses. These requirements may include remediation and/or repetition of courses, depending on academic standing or length of

time since leaving the program. The remaining program will be planned as considered best for the student and according to the current curriculum.

### Retaking Courses

Each individual required nursing course may be repeated only once with a maximum of two repeated courses in the curriculum. Students who do not successfully complete a course after two attempts or who must repeat more than two different courses will be dis-enrolled from the nursing program. A course for which a student earned a grade below C (or NC in a clinical course) must be repeated within the next two semesters in residence. All grades earned will be used in calculating the student's cumulative and nursing grade point averages, but credits will be counted only once toward the minimum nursing and degree credit requirements.

**Didactic/Theory Courses:** Undergraduate students may repeat any required didactic/theory course once without special permission.

**Clinical Courses:** To repeat a clinical course, an appeal must be made to the Associate Dean for Academic Affairs who will determine if the appeal merits approval. Upon a successful appeal, a student may repeat a clinical course based upon course schedule and program capacity.

### Withdrawal

A nursing student who finds it necessary to withdraw during a semester or summer session must talk with an academic advisor and complete the withdrawal process. Failure to do so may result in a recording of failure for all courses. Any student may withdraw from the program without grades being recorded during the first 12 weeks of a semester. After the 12th week, a student may withdraw only with the permission of the Office of Academic Affairs.

## CREDITS

### 30-Credit residence requirement

Students must complete at least 30 credits at UW–Madison. Baccalaureate students must complete at least 15 credits in nursing courses from the School of Nursing, including one required clinical nursing course at the 400 level or above.

### Credit Load

A full-time program is 12 to 18 credits for a semester. Students who wish to carry more than 18 credits per semester must obtain permission from the Office of Academic Affairs. Students will be assessed additional tuition per credit on all credits carried over 18.

### Retrocredits

The School of Nursing grants retroactive foreign language credit to students for foreign language skill developed in high school or elsewhere. To earn retroactive credits for language, students must enroll in a higher level language course at UW–Madison before the end of the first two semesters in residence. Transfer students must enroll in the course on the UW–Madison campus before they earn 30 degree credits (including credits transferred from other campuses but not including AP, CLEP, IB, or retro credits in another language). Students must earn a grade of B or better. If these conditions are met, retroactive credits should appear automatically on a student's transcript by the beginning of the following semester. Students will receive credit for the UW course completed and for all lower level courses in that language up to 16 retroactive credits maximum. These retroactive language credits may be used to meet degree requirements of the college or department, but may not be used to meet humanities requirements. They will be counted as electives only.



## DEGREES

### Second Undergraduate Degree

Second undergraduate degree candidates are considered for admission to both the pre-nursing and nursing classifications. Students who apply as second undergraduate program candidates must meet the admission and transfer grade point requirements of the university in place at the time they apply for admission. If admitted, an action is taken granting permission to pursue a second degree.

### Second Major

Students may request permission to pursue a second major along with the nursing degree. Students must complete the nursing school's Petition for Special Consideration (<https://nursingstudentnet.wiscweb.wisc.edu/wp-content/uploads/sites/222/2017/07/petition-spec-consideration-ug.pdf>) to make the request.

## GRADES

### Grading Scale

The school has a standard grading scale in nursing courses that are graded A-F, as noted below. Some Experiential Learning (i.e., clinical) courses are graded Credit/No Credit.

A: 94–100  
 AB: 88–93.99  
 B: 82–87.99  
 BC: 76–81.99  
 C: 70–75.99  
 D: 65–69.99  
 F: <65

### Incompletes

An incomplete may be reported for a student who has carried a subject with a passing grade until near the end of the semester and then, because of illness or other unusual and substantiated cause beyond the student's control, is unable to take or complete the final examination or is unable to complete some limited amount of term work. An Incomplete is not given to a student who stays away from a final examination except as indicated above. In the absence of substantiated cause, the grade shall be F. Even with such proof, if the student's work has convinced the instructor that s/he cannot pass the course, the grade shall be F. Any Incomplete taken by a School of Nursing student must be completed by the end of the student's next semester of residence (specifically, by the last day of classes), excluding summer sessions. If the work is not completed by this deadline, the Incomplete will lapse into a Failure unless the time limit has been extended in writing by the Office of Academic Affairs.

### Minimum Grade Requirement

Students must earn a grade of C (2.0) or higher in each required nursing (N#) course, including didactic/theory and clinical courses. Students must receive credit (CR) in any clinical course that is offered on a Credit/No Credit basis. Any student who earns a grade below C or does not receive credit for a clinical course must repeat the course and earn a C or higher (or CR in a clinical course) in order to progress in the program in accordance with subsequent course prerequisites.

### Pass/Fail

The total number of ungraded credits (i.e., pass/fail) applied to graduation requirements may not exceed 24. Students who plan graduate study are advised to consult with graduate studies departments to determine acceptance of credits taken under the pass/fail option. Students eligible for the pass/fail privilege are continuing students with NUR, NCP (BSN@Home), or PRN classifications who have a minimum 2.5 cumulative GPA on all courses completed and have no end-of-semester academic

actions on their current record. Newly admitted students in these classifications are also eligible for the pass/fail privilege. Only one course can be carried on pass/fail basis during each semester or summer session; or 3 or 4 credits of 1-credit modular courses. No required courses may be carried under the pass/fail option. The registrar's office will convert final letter grades reported by the student's instructor to an S (pass) grade if the letter grade is C or higher or to a U (fail) if the final letter grade is below C. Course credits in which a student obtains a U grade cannot be counted toward the minimum of 124 credits required for graduation. Students interested in the pass/fail option must contact their nursing academic advisor to determine eligibility.

## PROFESSIONAL STANDARDS

Students in the School of Nursing must demonstrate patterns of professional behavior that 1) follow the legal and ethical codes of nursing; 2) demonstrate intellectual honesty and a strong sense of personal integrity; 3) show exemplary moral and ethical character; 4) display a responsible, civil attitude towards patients, fellow healthcare workers, classmates, faculty, and staff; 5) show respect for the human rights of individuals; and 6) demonstrate appropriate action to ensure the safety of clients, self, and others. Professional behavior is expected in the classroom, clinical settings, learning activities, and in any additional circumstances where a student represents the university or the School of Nursing. Students whose behavior does not comply with these professional standards will receive sanctions that may include but are not limited to a lower or failing grade in a course, immediate removal from a course (i.e., administrative drop), or dismissal from the nursing program.

## RESOURCES

### SIGNE SKOTT COOPER HALL

In fall 2014, the School of Nursing moved to the new Signe Skott Cooper Hall. This \$53.3 million nursing building features world-class technology and innovative educational spaces that will allow the nursing school to address health care's new standard of excellence—high-tech and high-touch methods and practices that result in better patient outcomes and greater satisfaction with care.

## ADVISING AND STUDENT SERVICES

### OFFICE OF ACADEMIC AFFAIRS

The Office of Academic Affairs is the undergraduate dean's office for the School of Nursing. Staff members interpret school regulations, policies, and program requirements; make exceptions around requirements and deadlines; advise prospective and current students; monitor students having academic difficulties; coordinate compliance; facilitate the program's admissions process; and maintain the official files of students in the school.

### ACADEMIC ADVISING

Academic advising is an essential component of undergraduate education. The primary advising mission in the School of Nursing is to help students identify and clarify their academic pathways and educational goals, and to help them develop meaningful plans to ensure academic success. Advising is an ongoing, caring, and collaborative relationship between advisor and student that provides meaning, guidance, and support throughout the educational process. Every pre-nursing (PRN) and nursing (NUR) student is assigned a professional advisor in the nursing school (

advising/). Advising is offered in individual appointments, group advising, and graduation checks for seniors.

## CAREER ADVISING

In addition to professional academic advisors, the School of Nursing has career advising available to help students prepare for a successful career in nursing. Services include resume and job search assistance, online job postings, information sessions, and nursing career fairs.

## ACADEMIC SUPPORT SERVICES

Career & Student Success (<https://students.nursing.wisc.edu/support-assistance/nursing-learning-center/>) Academic Support has a mission to develop the next generation of nurse leaders by providing holistic, culturally congruent student support across four dimensions: academic support, leadership and connection, career development, and wellness throughout the student experience. Students can gather with other like-minded, focused, and enthusiastic students to improve not only their understanding of the course material but of their own learning styles. Sessions are designed to assist pre-nursing and nursing students in weekly small-group study formats. Current courses supported include anatomy, physiology, pharmacology, and pathology, as well as courses in the nursing curriculum. Workshops and other sessions help students with test preparation, study skills, time management, etc.

## STUDENT ORGANIZATIONS

The School of Nursing encourages and supports students to pursue their interests and form social networks. In addition to numerous associations available to students on the broader campus (including the Aspiring Nurses Association [ANA] for pre-nursing students), there are a number of student-run groups established specifically for current nursing students. These include the Student Nurses' Association, the Multicultural Student Nurses' Organization, the Nurse's Christian Fellowship, the Global Health Interest Group, the Holistic Nursing Group, the Perinatal Interest Group, and the Student Geriatric Interest Group. The purpose of these groups is to give students the opportunity to enhance their experiences related to professional development, social circles, political action, community service, and academic achievement, as well as foster connections between faculty, staff, and students.

## FINANCIAL AID AND SCHOLARSHIPS

The School of Nursing awards more than \$400,000 in scholarships each year to admitted undergraduate nursing students. Awards are based on both academic merit and financial need. Students are invited to apply to nursing specific scholarships, as well as campus-wide or non-nursing scholarships, through the Wisconsin Scholarship Hub or WiSH (<http://scholarships.wisc.edu/Scholarships/>).

## HONORS

### HONORS PROGRAM

The School of Nursing offers an Honors Program for those high-ability students seeking early research involvement with a faculty mentor. Students who successfully complete the Honors Program graduate with distinguished academic performance and receive a Bachelor of Science in Nursing (BSN) with Honors. In addition, students of the Honors Program acquire an enriched view of nursing science.

Each student in the Honors Program has an active role in identifying a faculty mentor. Once a student is assigned a faculty mentor, the mentor will help the student understand the research process and provide research-related resources. The mentor will also assist with identification and implementation of a senior honors thesis.

Interested students apply for admission to the Honors Program during their first semester in the two-year Traditional BSN program. Admission to the Honors Program is based on past academic work, a short essay, and a letter of reference.

Review the Honors Program (<https://students.nursing.wisc.edu/undergraduate-menu/undergraduate-program/>) page of the Student Site for complete details.

## SCHOOL OF NURSING

### DEGREES/MAJORS/CERTIFICATES

- Nursing, BSN (p. 1842)
- Nursing, BSN (Accelerated Program) (p. 1847)
- Nursing, BSN (Collaborative Program) (p. 1851)
- School of Nursing Honors (p. 1855)

## NURSING, BSN

The bachelor of science in nursing (BSN) degree program prepares individuals for careers in professional nursing in hospitals and other health care agencies. This traditional BSN program provides a foundation for progressing to positions of increased responsibility, leadership, and continued education in graduate programs. Upon successful completion of the program, students receive a bachelor of science in nursing degree from the UW-Madison School of Nursing.

The curriculum includes courses in nursing as well as in liberal arts and sciences. Most students enter UW-Madison as pre-nursing students and spend their first two years completing nursing prerequisite and general education courses. Students then apply midway through their sophomore year to enter the nursing program as juniors. From there, the two-year nursing component includes lectures, laboratory, and clinical courses. Nursing courses emphasize clinical decision-making and the application of theoretical knowledge. Clinical experiences can be up to 90 miles from Madison and may include ambulatory sites, clinics, hospitals, rehabilitation centers, home health agencies, geriatric facilities, school districts, nursing homes, policy centers, etc. This range of sites and opportunities gives students comprehensive exposure to a broad range of patients, illness, and care in both clinical patient and community health settings. Elective courses in general education and in nursing permit students to pursue individual interests.

### HOW TO GET IN

Admission to the nursing major is competitive and determined by a comprehensive review of each student's academic preparation and performance, leadership, extracurricular activities and service, health care experience and background, diversity in experience and background, and the quality of application statements/essays.

**Upper Division admission** is the standard route into the Traditional BSN nursing program. In this model, students enter UW–Madison as pre-nursing students (PRN), they spend the first two years completing general education requirements and nursing prerequisites, and then apply for admission to the nursing program for the final two years on campus. Students may also apply to transfer directly into the Traditional BSN campus from another institution, upon completing the admission requirements.

Admission is highly competitive and based on factors including academic performance, pattern and trend of grades, courses taken, leadership roles, extracurricular activities, experiences related to health care, and experiences or background in diverse cultural, social, and geographic settings. Approximately half the students who apply for admission are admitted. The application deadline is February 1 to enter the nursing program the following fall.

To be considered for the Traditional BSN program, students must, at the time of application:

1. be in progress to complete at least 54 degree credits of college-level course work by the end of the spring semester;
2. have a minimum cumulative college GPA of 2.75 (based on a 4.0 scale) at the end of the fall semester and again at the end of the spring semester;
3. have completed or have in progress four of the following seven prerequisite courses by the end of the fall semester, and be enrolled to complete all seven by the end of the spring semester; and
4. have a minimum combined prerequisite GPA of 2.75 and earn at least a C (2.0) in each of the individual seven prerequisite courses.

The seven prerequisite courses are:

1. Chemistry w/ Lab
2. Microbiology
3. Human Anatomy
4. Human Physiology
5. Psychology (introductory)
6. Sociology (introductory)
7. Human Growth and Development

Students transferring to the University of Wisconsin–Madison, as well as students who already have a bachelor's degree and wish to earn a second degree in nursing, also apply to the Traditional BSN program via the Upper Division Admission option. More information on the admission process and requirements for transfer students and second-degree students is available on the School of Nursing website (<https://nursing.wisc.edu/undergraduate/bsn/>).

values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth–Humanities/Literature/Arts: 6 credits
  - Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth–Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## TRADITIONAL BSN MAJOR REQUIREMENTS

Code	Title	Credits
<b>Science</b>		
<i>Chemistry</i>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
Equivalent		
<i>Microbiology</i>		
Select one of the following:		3
MICROBIO 101	General Microbiology	
BIOCHEM 501	Introduction to Biochemistry	
Equivalent		
<i>Human Anatomy</i>		
ANAT&PHY 337	Human Anatomy (or equivalent)	3
<i>Physiology</i>		
ANAT&PHY 335	Physiology (or equivalent)	5
<b>Total Credits</b>		<b>15-16</b>

## HUMANITIES AND SOCIAL SCIENCE

Code	Title	Credits
<b>Humanities and Social Science</b>		
<i>Psychology</i>		
PSYCH 202	Introduction to Psychology (or equivalent)	3
<i>Sociology</i>		
Select any introductory Sociology course		3
<i>Human Growth and Development</i>		
Select three credits of Human Growth and Development		3
<i>Humanities</i>		
Select six credits of Humanities		6

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic

<i>Humanities or Social Science</i>	
Select seven credits of Humanities or Social Science	7
<b>Total Credits</b>	<b>22</b>

**MATH**

Code	Title	Credits
<b>Math</b>		
<i>College Algebra</i>		
MATH 112	Algebra (or equivalent)	3
<b>Total Credits</b>		<b>3</b>

**ELECTIVES**

Code	Title	Credits
<b>Electives</b>		
Select 15-27 credits of electives		15-27
<b>Total Credits</b>		<b>15-27</b>

**NURSING**

Code	Title	Credits
<b>Nursing</b>		
NURSING/ S&A PHM/ SOC WORK 105	Health Care Systems: Interdisciplinary Approach	2
NURSING 313	Foundations of Nursing Practice	2
NURSING 314	Health Promotion and Disease Prevention Across the Lifespan	3
NURSING 315	Professionalism in Nursing Practice	2
NURSING 316	Foundations of Nursing Practice: Experiential Learning	4
NURSING 317	Pharmacology Essentials for Nursing Practice	2-3
NURSING 318	Pathophysiology Essentials for Nursing Practice	3
NURSING 323	Health and Illness Concepts with Individuals and Families	4
NURSING 324	Meeting the Psychosocial Health Needs of Individuals, Families, and Communities	3
NURSING 325	Professionalism in Health Care Settings	2
NURSING 326	Health and Illness Concepts with Individuals and Families: Experiential Learning I	2
NURSING 327	Health and Illness Concepts with Individuals and Families: Experiential Learning II	2
NURSING 434	Health and Illness Concepts with Individuals, Families, and Communities	5
NURSING 435	Evidence-Based Practice	1
NURSING 436	Health and Illness Concepts with Individuals, Families, and Communities: Experiential Learning	4
NURSING 437	Social Justice in Local and Global Settings	3

NURSING 443	Advanced Concepts in Complex Nursing Practice	5
NURSING 444	Health Systems, Policy, Economics, and Research	3
NURSING 445	Transformative Nursing Capstone	1
NURSING 446	Advanced Concepts in Complex Nursing Practice: Experiential Learning	4
<b>Total Credits</b>		<b>57-58</b>

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

- Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
- Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
- Make effective use of technology for patient care, education, and management of health information.
- Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
- Use knowledge sources effectively to provide evidence-based care.
- Identify health disparities and advocate for basic essential health services for all.
- Allocate health care resources to maximize the health care benefit to clients, families, and community.
- Assume fiscal and ethical responsibility for clinical practice.
- Function as a member of the nursing profession within the community and the world.

## FOUR-YEAR PLAN

This is a sample four-year plan. There are many potential variations of this plan, especially in the freshman/sophomore pre-nursing years. All students are strongly encouraged to consult with their academic advisor to develop an individualized plan that meets their specific needs. The degree requires a total of 120 credits minimum.

### Freshman

Fall	Credits	Spring	Credits
SOC/C&E SOC 210	3-4	PSYCH 202	3-4
BIOLOGY/ ZOOLOGY 101	3	CHEM 103	4
MATH 112	3	Communications A	3
NURSING/S&A PHM/ SOC WORK 105	2	Humanities or Social Science	3-4
Humanities or Social Science	3-4		
<b>14-16</b>		<b>13-15</b>	

### Sophomore

Fall	Credits	Spring	Credits
ANAT&PHY 337	3	ANAT&PHY 335	5
HDFS 362	3	Communications B	3-4
Quantitative Reasoning B	3-4	MICROBIO 101	3
Elective	3	Ethnic Studies	3
Humanities or Social Science	3-4	Humanities or Social Science or Elective	3-4
<b>15-17</b>		<b>17-19</b>	

### Junior

Fall	Credits	Spring	Credits
NURSING 313	2-3	NURSING 318	3
NURSING 314	3	NURSING 323	4
NURSING 315	2	NURSING 324	3
NURSING 316	4	NURSING 325	2
NURSING 317	2-3	NURSING 326	2
		NURSING 327	2
<b>13-15</b>		<b>16</b>	

### Senior

Fall	Credits	Spring	Credits
NURSING 434	4-5	NURSING 443	5
NURSING 435	1	NURSING 444	3
NURSING 436	2-4	NURSING 445	1
NURSING 437	2-3	NURSING 446	2-5
Nursing Elective	3	Nursing Elective	3
<b>12-16</b>		<b>14-17</b>	

**Total Credits 114-131**

## ADVISING AND CAREERS

The School of Nursing provides dedicated, professional academic and career advising to undergraduate students in their pre-nursing and nursing years. As one of the smaller schools on campus, the school is able to offer

a great deal of personal attention and individualized academic and career advising.

## ACADEMIC ADVISING

All pre-nursing and nursing students are assigned an academic advisor based on the students last name. Generally speaking, freshmen receive advising in small-group sessions. Once students enter their sophomore year, they move to one-on-one advising appointments with their assigned advisor. Detailed information on the school's academic advising system and staff (<https://students.nursing.wisc.edu/undergraduate-menu/undergraduate-advising/>) are available on the school's student intranet, called the Student Site. Questions about advising can also be directed to the Office of Academic Affairs at 608-263-5202.

## CAREER ADVISING

The school offers career advising services to provide resources and strategies for career planning and placement. This includes workshops and job/internship fairs, resume review, job search resources, and licensure information. In addition, the school offers a 1-credit seminar N590 Introduction to Career Development in Nursing.

## PEOPLE

### OFFICE OF ACADEMIC AFFAIRS ADMINISTRATION

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Career Development & Learning Support Manager  
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## ADMISSIONS AND RECRUITMENT

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## CLINICAL PLACEMENT

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### Rikki Klassy

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## STUDENT INFORMATION AND TECHNOLOGY

### John Coutley

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### Amy Corridon

Curricular & Technology Specialist  
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## CERTIFICATION/LICENSURE

Earning the bachelor of science in nursing degree is the first step toward becoming a Registered Nurse. Graduates must also take and pass the National Council Licensure Exam (NCLEX-RN) to receive their nursing license and begin their careers as nurses in hospitals, community health and mental health agencies, industrial health centers, nursing homes, family planning centers, crisis care centers, and beyond. A nursing license gives an individual permission to practice nursing, granted by the state where he or she met the requirements.

The School of Nursing works with students as they complete graduation requirements and the two-step process to register for the NCLEX. Specifically the school verifies graduation and assists students as they register for the exam. Most students take the NCLEX within three months of graduation. More than 90 percent of School of Nursing graduates pass the NCLEX on first attempt.

## CERTIFICATION/LICENSURE

National Council of State Boards of Nursing NCLEX-RN (<https://www.ncsbn.org/nclex.htm>)

Year of Exam	UW-Madison National Graduates:	First First Attempt
April-September 2022	85%	80%
April-September 2021	81%	72%
April-September 2020	93%	79%

Note: UW-Madison BSN Graduates pass rate reflects all UW-Madison Bachelor of Science-Nursing graduates who tested during the April-to-September test period for the first time, including recent and previous graduates.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Oklahoma, Ohio, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, West Virginia, Wisconsin, Wyoming, District of Columbia, Guam, Northern Mariana Islands, U.S. Virgin Islands

### The requirements of this program do not meet Certification/Licensure in the following states:

California, New York

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Pennsylvania, Vermont, Washington, American Samoa, Puerto Rico

## RESOURCES AND SCHOLARSHIPS

### SIGNE SKOTT COOPER HALL

In fall 2014, the School of Nursing moved to the new Signe Skott Cooper Hall. This \$53.3 million nursing building features world-class technology and innovative educational spaces that will allow the nursing school to address health care's new standard of excellence—high-tech and high-touch methods and practices that result in better patient outcomes and greater satisfaction with care.

## ADVISING AND STUDENT SERVICES

### OFFICE OF ACADEMIC AFFAIRS

The Office of Academic Affairs is the undergraduate dean's office for the School of Nursing. Staff members interpret school regulations, policies, and program requirements; make exceptions around requirements and deadlines; advise prospective and current students; monitor students having academic difficulties; coordinate compliance; facilitate the program's admissions process; and maintain the official files of students in the school.

## ACADEMIC ADVISING

Academic advising is an essential component of undergraduate education. The primary advising mission in the School of Nursing is to help students identify and clarify their academic pathways and educational goals, and to help them develop meaningful plans to ensure academic success. Advising is an ongoing, caring, and collaborative relationship between advisor and student that provides meaning, guidance, and support throughout the educational process. Every pre-nursing (PRN) and nursing (NUR) student is assigned a professional advisor in the nursing school (<https://students.nursing.wisc.edu/undergraduate-menu/undergraduate-advising/>). Advising is offered in individual appointments, group advising, and graduation checks for seniors.

## CAREER ADVISING

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The School of Nursing encourages and supports students to pursue their interests and form social networks. In addition to numerous associations available to students on the broader campus (including the Aspiring Nurses Association [ANA] for pre-nursing students), there are a number of student-run groups established specifically for current nursing students. These include the Student Nurses' Association, the Multicultural Student Nurses' Organization, the Nurse's Christian Fellowship, the Global Health Interest Group, the Holistic Nursing Group, the Perinatal Interest Group, and the Student Geriatric Interest Group. The purpose of these groups is to give students the opportunity to enhance their experiences related to professional development, social circles, political action, community service, and academic achievement, as well as foster connections between faculty, staff, and students.

## FINANCIAL AID AND SCHOLARSHIPS

The School of Nursing awards more than \$400,000 in scholarships each year to admitted undergraduate nursing students. Awards are based on both academic merit and financial need. Students are invited to apply to nursing specific scholarships, as well as campus-wide or non-nursing scholarships, through the Wisconsin Scholarship Hub or WiSH (<http://scholarships.wisc.edu/Scholarships/>).

## ACCREDITATION

### ACCREDITATION

Commission on Collegiate Nursing Education (<http://www.aacnnursing.org/CCNE/>)

Accreditation status: Next accreditation review: 2029-2030.

## NURSING, BSN (ACCELERATED PROGRAM)

Students who already have a bachelor's degree or higher and are interested in making a career change to nursing can apply to enter this fast-track professional program to earn the bachelor of science in nursing (BSN) in just 12 months.

It is an intense, rigorous program with students completing approximately 1 credit a week, for a total of 49 credits over 12 months. This equates to an average of 50 classroom-based, clinical, and out-of-class hours each week.

Tuition is a flat rate of \$45,000 for Wisconsin residents (including reciprocity for MN residents), \$60,000 for nonresidents, plus fees and other program-related expenses.

## HOW TO GET IN

### SCHOOL OF NURSING REQUIREMENTS

Following are the requirements to be eligible to apply for the Accelerated BSN program:

- Bachelor's degree in a non-nursing field from an accredited institution, completed by the program start date. Students anticipating spring graduation can apply the prior fall; proof of timely progress is required.
- Admission to UW-Madison as a post-undergraduate degree-seeking student (separate application required)
- Minimum college-level cumulative GPA of 2.75
- Completion of the prerequisites listed below with a grade of C or better in each course and a minimum combined GPA of 2.75. The first four prerequisites (science courses) must be completed by the application deadline and within seven years of the program start date. All prerequisites must be complete before the program start date. Prerequisite equivalency information is available on the BSN Prerequisite Course Equivalencies (<https://nursing.wisc.edu/undergraduate/course-equivalencies/>) page.
  - a. Chemistry w/Lab
  - b. Microbiology
  - c. Human Anatomy
  - d. Human Physiology
  - e. Psychology (introductory)
  - f. Sociology (introductory)
  - g. Human Growth and Development

**Note:** *Anatomy and physiology may be satisfied by one semester of anatomy and one semester of physiology or by A&P I and II. With the latter option, students must complete both courses at the same institution.*

## UW-MADISON GENERAL EDUCATION REQUIREMENTS

Applicants must also complete the following university-wide General Education Requirements (<http://gened.wisc.edu/Req.htm>). At least two must be completed by the application deadline, and all prerequisites must be completed before the program start date.

1. Communications Part A: Literacy Proficiency
2. Communications Part B: *Comm-B requirement is waived for students pursuing the Accelerated BSN degree only.*
3. Quantitative Reasoning Part A: QR Proficiency
4. Quantitative Reasoning Part B: Enhanced QR Proficiency
5. Ethnic Studies

## APPLICATION DATES AND DEADLINES

The program requires two applications: one to UW-Madison, plus a supplemental application to the School of Nursing for the Accelerated BSN program. Both applications open September 1 and the deadline is October 1. In-person interviews occur in November. Admission decisions are released in December and students must submit their intent to enroll by March 1.

## TRANSFER CREDIT EVALUATION AND PROOF OF ENROLLMENT

An unofficial transfer credit evaluation to check for completion of the nursing prerequisite courses and the university's General Education Requirements will be completed by the School of Nursing prior to the decision release date. Admission is contingent upon official verification by the UW-Madison Office of Admissions and Recruitment.

Applicants will be required to submit proof of enrollment at the time of application for any prerequisites not yet completed. If enrollment has not opened for a particular course, students will be asked to submit a statement of intent to register that lists the course, institution, dates of instruction, and enrollment date.

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin-Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

### General Education

- Breadth—Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth—Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## SCHOOL OF NURSING REQUIREMENTS

The Accelerated bachelor of science in nursing (BSN) degree is a 49-credit curriculum comprised of 17 didactic and experiential learning (i.e., clinical) nursing courses. The program builds on the coursework Accelerated BSN students completed in their prior undergraduate and/or graduate degree(s) and the prerequisite coursework, including the university's General Education Requirements, completed in preparation for admission to the program.

## MAJOR REQUIREMENTS

During the 12-months in the Accelerated BSN program, students complete 49 credits of required nursing coursework, including classroom-based active learning courses and experiential learning courses in the clinical environment. This nursing coursework will include Pathology and Pharmacology.

### NURSING

Code	Title	Credits
<b>Nursing</b>		
NURSING 313	Foundations of Nursing Practice	2
NURSING 314	Health Promotion and Disease Prevention Across the Lifespan	3
NURSING 315	Professionalism in Nursing Practice	1
NURSING 316	Foundations of Nursing Practice: Experiential Learning	5
NURSING 317	Pharmacology Essentials for Nursing Practice	2
NURSING 318	Pathophysiology Essentials for Nursing Practice	3
NURSING 323	Health and Illness Concepts with Individuals and Families	4
NURSING 324	Meeting the Psychosocial Health Needs of Individuals, Families, and Communities	3
NURSING 326	Health and Illness Concepts with Individuals and Families: Experiential Learning I	2
NURSING 327	Health and Illness Concepts with Individuals and Families: Experiential Learning II	2



NURSING 434	Health and Illness Concepts with Individuals, Families, and Communities	4
NURSING 436	Health and Illness Concepts with Individuals, Families, and Communities: Experiential Learning	2
NURSING 437	Social Justice in Local and Global Settings	2
NURSING 443	Advanced Concepts in Complex Nursing Practice	5
NURSING 446	Advanced Concepts in Complex Nursing Practice: Experiential Learning	5
NURSING 447	Scholarship for Evidence-Based Practice	2
NURSING 448	Leadership in the Profession of Nursing	2

**Total Credits** **49**

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
- Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
- Make effective use of technology for patient care, education, and management of health information.
- Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
- Use knowledge sources effectively to provide evidence-based care.
- Identify health disparities and advocate for basic essential health services for all.
- Allocate health care resources to maximize the health care benefit to clients, families, and community.
- Assume fiscal and ethical responsibility for clinical practice.
- Function as a member of the nursing profession within the community and the world.

## FOUR-YEAR PLAN

The Accelerated BSN program is for second-degree candidates and is a 49-credit program completed over 12 months. There is not a four-year plan for this program. Please refer to the Requirements (p. 1848) tab for more about the curriculum and program plan.

## ADVISING AND CAREERS

### ACADEMIC ADVISING

The Office of Academic Affairs provides comprehensive academic advising services to students in the Accelerated BSN program.

### CAREER ADVISING

The school offers career advising services to provide resources and strategies for career planning and placement. This includes workshops and job/internship fairs, resume review, job search resources, and licensure information. Visit Career Advising and Student Success (<https://students.nursing.wisc.edu/career-advising/career/>) for more information.

## PEOPLE

### OFFICE OF ACADEMIC AFFAIRS ADMINISTRATION

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**Kelli Richards**

Career Development & Learning Support Manager  
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Year of Exam	UW-Madison National Graduates: First Attempt	National First Attempt
April-September 2021	81%	72%
April-September 2020	93%	79%
April-September 2019	89%	86%

Note: UW-Madison BSN Graduates pass rate reflects all UW-Madison Bachelor of Science–Nursing graduates who tested during the April-to-September test period for the first time, including recent and previous graduates.

**PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)**

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Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, West Virginia, Wisconsin, Wyoming, District of Columbia, Guam, Northern Mariana Islands, U.S. Virgin Islands

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**RESOURCES AND SCHOLARSHIPS**

**SIGNE SKOTT COOPER HALL**

In fall 2014, the School of Nursing moved to the new Signe Skott Cooper Hall. This \$53.3 million nursing building features world-class technology and innovative educational spaces that will allow the nursing school to address health care’s new standard of excellence—high-tech and high-touch methods and practices that result in better patient outcomes and greater satisfaction with care.

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service, and academic achievement, as well as foster connections between faculty, staff, and students.

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## ACCREDITATION

### ACCREDITATION

Commission on Collegiate Nursing Education (<http://www.aacnursing.org/CCNE/>)

Accreditation status: Accredited. Next accreditation review: 2029-2030.

## NURSING, BSN (COLLABORATIVE PROGRAM)

### BSN@HOME

The RN to BSN program, called the BSN@Home (<http://bsnathome.com/>) program, is for Registered Nurses who already have an associate's degree or diploma in nursing and wish to earn the bachelor of science in nursing degree.

The curriculum is designed for working adults. Almost all required coursework is completed online. Students can complete the program in as little as a year and a half.

The BSN@Home program is cooperatively administered by six campuses in the University of Wisconsin System: UW-Madison, UW-Eau Claire, UW-Green Bay, UW-Milwaukee, UW-Oshkosh and UW-Stevens Point. Students typically select their home institution based on proximity. All BSN@Home students are required to complete the same core nursing curriculum, but specific admission and degree requirements vary among campuses.

## HOW TO GET IN

### ELIGIBILITY REQUIREMENTS

- Associate's degree in nursing (ADN) or diploma in nursing from an accredited nursing program. Students with an ADN (or equivalent degree) through an international institution are eligible for admission consideration if they have completed the following required coursework. International Nurse Admission Requirements can be downloaded from this page.
- Overall GPA of 2.5 on 4.0 scale
- RN license
- Resident of Wisconsin, upper peninsula of Michigan, and/or contiguous counties in Illinois, Iowa or Minnesota

- Meets university transfer admission requirements (<https://www.admissions.wisc.edu/apply/transfer/requirements.php>) at UW–Madison. Factors considered in admission decisions include:
  - **Cumulative grade point average (GPA):** While the average GPA of admitted transfers is a 3.4, UW–Madison will consider prospective BSN@Home if they have a cumulative GPA of at least 2.5 with steady grade trends and patterns. GPA calculations will include all grades received for repeated courses; the initial grade, as well as grades received in second and subsequent attempts will be included in the GPA calculation.
  - **College-Level Course Preparation:** Students must have completed at least 24 transferable ([https://www.admissions.wisc.edu/apply/transfer/transfer\\_credit.php](https://www.admissions.wisc.edu/apply/transfer/transfer_credit.php)) (college-level) non-nursing credits in addition to the nursing classes they completed in their ADN or nursing diploma program.
  - **High School Record:** Regardless of the number of college credits earned, the high school transcript is required and must show proof of graduation.
  - **Required Courses:** Students must have completed one year each of high school algebra, plane geometry, and college-preparatory math, and two high school years or two college semesters of a single foreign language. Requirements may vary if students graduated high school 1991 or prior. Contact the Office of Admissions and Recruitment (<https://www.admissions.wisc.edu/contact.php>) with specific questions about academic background.

## TO APPLY

### ADMISSIONS TIMELINE

Students can begin the program in either spring or fall.

- **Fall term application due:** February 1
- **Spring term application due:** October 1

### REVIEW OF APPLICATIONS

Applications are reviewed by the UW–Madison Office of Admissions and Recruitment. Students will be evaluated on both high school and college records. Admission to the program is selective.

### TO APPLY

Complete the UW System Application for Admission (<https://apply.wisconsin.edu/>):

- Intended campus: UW–Madison
- Intended major: BSN@Home/Nursing Collaborative Program

For this program, there is no supplemental application submitted to the School of Nursing.

### UW–MADISON REENTRY ADMISSION

Students who have previously attended UW–Madison as degree-seeking students are eligible to apply to the BSN@Home program by submitting a Reentry Application (<https://www.admissions.wisc.edu/apply/reentry/>). Second-degree candidate should select BSN@Home/Nursing Collaborative Program as the intended major. Students who have not previously earned an undergraduate degree through UW–Madison will be readmitted to their previous classification (e.g., Letters & Science). If readmitted to the previous classification, students should email ([bsnadmit@son.wisc.edu](mailto:bsnadmit@son.wisc.edu)) the School of Nursing to request consideration for admission to the BSN@Home program.

Reentry applications will be evaluated by the UW–Madison Office of Admissions and Recruitment. While the Reentry Admissions (<https://www.admissions.wisc.edu/apply/reentry/>) site lists university-wide application deadlines, students should submit the application by the following dates to ensure access to open nursing courses:

- **Summer term:** February 1
- **Fall semester:** March 1
- **Spring semester:** October 1

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- |                   |  |
|-------------------|--|
| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
|-------------------|--|

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### RN TO BSN (BSN@HOME) MAJOR REQUIREMENTS

Students may transfer up to **90 credits** of coursework taken elsewhere (from a two-year or a four-year institution). A total of 120 credits is required for the Nursing, BSN (Collaborative).

Code	Title	Credits
Science <sup>1</sup>		12-13
Humanities and Social Science <sup>1</sup>		22
Nursing Transfer Credits <sup>2</sup>		24-30
BSN@Home Coursework		24
Electives		31-38
<b>Total Credits</b>		<b>120</b>

1

The entirety of this requirement group may be fulfilled by transfer credit.

2

Students who earned an ADN from a Wisconsin Technical College may transfer 30 credits. All others receive 24 credits.

## SCIENCE

All requirements may be transferred from a two-year or four-year institution (12-13 credits).

Code	Title	Credits
<b>Science</b>		
<i>Chemistry</i>		
Select one of the following:		4-5
CHEM 103	General Chemistry I	
CHEM 108	Chemistry in Our World	
CHEM 109	Advanced General Chemistry	
<i>Microbiology</i>		
Select one of the following:		3
MICROBIO 101	General Microbiology	
BIOCHEM 501	Introduction to Biochemistry	
<i>Anatomy &amp; Physiology</i>		
ANAT&PHY 335	Physiology	5
<b>Total Credits</b>		<b>12-13</b>

## HUMANITIES AND SOCIAL SCIENCE

All requirements may be transferred from a two-year or four-year institution (22 credits).

Code	Title	Credits
<b>Humanities and Social Science</b>		
<i>Psychology</i>		
PSYCH 202	Introduction to Psychology (or equivalent)	3
<i>Sociology</i>		
Select any introductory Sociology course		3
<i>Human Growth and Development</i>		
Select three credits of Human Growth and Development		3
<i>Humanities</i>		
Select six credits of Humanities		6
<i>Humanities or Social Science</i>		
Select seven credits of Humanities or Social Science		7
<b>Total Credits</b>		<b>22</b>

## NURSING TRANSFER CREDITS

Students pursuing a Nursing BSN may transfer in credits from another institution to fulfill some of the requirements of the degree. These transfer credits are awarded in recognition of the associate's degree in nursing (ADN) or nursing diploma. Students who earned the ADN from a Wisconsin Technical College receive 30 transfer credits.<sup>1</sup> All other students receive 24 credits.<sup>2</sup>

1

Transcripted as NURSINGX02 and NURSINGX28.

2

Transcripted as NURSINGX02 and NURSINGX22.

## BSN@HOME NURSING COURSEWORK

Code	Title	Credits
<b>Nursing</b>		
CNP 306	Transitions: Practice, Professional and Personal	3
CNP 407	Foundations of Professional Nursing Practice	3
CNP 441	Chronic Care Management	3
CNP 446	Nursing Research and Evidence-Based Practice	3
CNP 447	Leadership and Management	3
CNP 453	Information Management and Healthcare Technology	3
CNP 454	Community Health Nursing	3
CNP 519	Capstone Practicum for Registered Nurses	3
<b>Total Credits</b>		<b>24</b>

## ELECTIVES

Code	Title	Credits
<b>Electives</b>		
Select 31-38 credits of electives		31-38
<b>Total Credits</b>		<b>31-38</b>

## UNIVERSITY DEGREE REQUIREMENTS

Total Degree	To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.
Residency	Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.
Quality of Work	Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

- Promote health and manage illness by providing safe, client-centered, culturally congruent care across the lifespan in a variety of health care settings.
- Employ professional nursing leadership concepts to address patient care and system needs to promote quality health care outcomes and health equity for all.
- Make effective use of technology for patient care, education, and management of health information.

4. Understand the roles and scope of practice of disciplines of the health care team and practice as an effective, collaborating member of the interprofessional team.
5. Use knowledge sources effectively to provide evidence-based care.
6. Identify health disparities and advocate for basic essential health services for all.
7. Allocate health care resources to maximize the health care benefit to clients, families, and community.
8. Assume fiscal and ethical responsibility for clinical practice.
9. Function as a member of the nursing profession within the community and the world.

## FOUR-YEAR PLAN

### Semester 1

Fall	Credits
CNP 306 (Must be taken first semester in the program)	3
CNP 407	3
	<b>6</b>

### Semester 2

	Spring	Credits
	CNP 441	3
	CNP 446	3
		<b>6</b>

### Semester 3

	Summer	Credits
	CNP 447	3
		<b>3</b>

### Semester 4

Fall	Credits
CNP 453	3
CNP 454	3
	<b>6</b>

### Semester 5

	Spring	Credits
	CNP 490	1-4
	CNP 519 (Must be taken in the last semester of nursing coursework.)	3
		<b>4-7</b>

**Total Credits 25-28**

## PEOPLE

### OFFICE OF ACADEMIC AFFAIRS ADMINISTRATION

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### **Amy Corridon**

Curricular & Technology Specialist  
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## CERTIFICATION/LICENSURE

### CERTIFICATION/LICENSURE

National Council of State Boards of Nursing NCLEX-RN (<https://www.ncsbn.org/nclex.htm>)

Year of Exam	UW-Madison National Graduates: First Attempt	National First Attempt
April-September 2021	81%	72%
April-September 2020	93%	79%
April-September 2019	89%	86%

Note: UW-Madison BSN Graduates pass rate reflects all UW-Madison Bachelor of Science-Nursing graduates who tested during the April-to-September test period for the first time, including recent and previous graduates.

## PROFESSIONAL CERTIFICATION/LICENSURE DISCLOSURE (NC-SARA)

The United States Department of Education requires institutions that provide distance education to disclose information for programs leading to professional certification or licensure about whether each program meets state educational requirements for initial licensure or certification. Following is this disclosure information for this program:

### The requirements of this program meet Certification/Licensure in the following states:

Alabama, Alaska, Arizona, Arkansas, Colorado, Connecticut, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, West Virginia, Wisconsin, Wyoming, District of Columbia, Guam, Northern Mariana Islands, U.S. Virgin Islands

### The requirements of this program do not meet Certification/Licensure in the following states:

California, New York

### The requirements of this program have not been determined if they meet Certification/Licensure in the following states:

Pennsylvania, Vermont, Washington, American Samoa, Puerto Rico

## ACCREDITATION

### ACCREDITATION

Commission on Collegiate Nursing Education (<http://www.aacnursing.org/CCNE/>)

Accreditation status: Next accreditation review: 2029-2030.

## SCHOOL OF NURSING HONORS

### HOW TO GET IN

All Traditional BSN students may apply to the Nursing Honors Program. The application process occurs during the first fall of enrollment in the nursing program. Admission to the Nursing Honors Program is based on academic performance and one essay.

### REQUIREMENTS

Each student in the Nursing Honors Program has an active role in identifying a faculty mentor. Once a student is assigned a faculty mentor, the mentor will help the student understand the research process and provide research-related resources. The mentor will also assist with identification and implementation of a senior honors thesis.

Honors students enroll in NURSING 679 Nursing Honors Research Seminar during the spring term of the first year of enrollment in the nursing program. They complete 1-2 credits of the NURSING 681 Senior Honors Thesis/NURSING 682 Senior Honors Thesis course during both the fall and spring of the second year. Honors students also take the required NURSING 442 Health Systems, Policy, and Economics during the spring of the second year.

## SCHOOL OF PHARMACY

If you are interested in becoming a pharmacist, a PharmD (Doctor of Pharmacy) degree is needed. PharmD degrees do not require a bachelor's degree first, but you do need to complete a set of college prerequisite courses and a specific number of college credits to apply to the PharmD degree program.

- For more information on the PharmD degree and program, visit the PharmD section of the Guide (<http://guide.wisc.edu/pharmacy/pharmacy-school-wide/pharmacy-dph/>).
- If you are a current UW-Madison undergraduate student or a prospective UW-Madison undergraduate student, and interested in entering the PharmD program in the future, visit our UW-Madison student pre-pharmacy website (<https://students.pharmacy.wisc.edu/student-services/sop-advising/pre-pharmacy-uwmadison/>) for more information on resources and pre-pharmacy advising available to you.
- For prerequisite and admissions information for all other students, visit the PharmD admissions website (<https://pharmacy.wisc.edu/academics/pharmd/admissions/>).

If you are interested in a pharmacy or biomedical sciences-related career that does not require a pharmacist license, consider checking out our BS in Pharmacology and Toxicology program below.

## BS IN PHARMACOLOGY AND TOXICOLOGY

The BS in Pharmacology and Toxicology (PharmTox) focuses on the biomedical sciences. **Pharmacology** is concerned with the properties, effects, and mechanisms of action of drugs, and with the interactions between chemical agents and biological systems. **Toxicology**, the science of poisons, combines the elements of biology and chemistry with those of many other disciplines to help us understand the harmful effects of chemicals on living organisms.

A major challenge for the **pharmacologist** is to determine how drugs act. This can be carried out at the subcellular and molecular level, the cellular level, the tissue level, the organ level, or the whole-animal level. Pharmacologists also are concerned with the development of new drugs that produce fewer side effects while curing disease, and provide more effective and/or more rapid treatment of disease in humans or animals.

**Toxicologists** find scientifically sound answers to questions about chemicals that may potentially threaten our health, about pesticides in the food we eat, pollutants in the air we breath, chemicals in the water we drink, and toxic waste sites near our homes. Some toxicologists are concerned with determining the cellular mechanisms by which drugs and chemicals produce toxic effects. Many are involved in subspecialty areas in toxicology research, such as reproductive and developmental toxicology, neurotoxicology, immunotoxicology, and inhalation toxicology. Researchers in these areas utilize both laboratory animals and in vitro systems to examine the cellular, biochemical, and molecular processes underlying toxic responses.

## BS IN PHARMACEUTICAL SCIENCES

The BS in Pharmaceutical Sciences **is not a major**, but is an internal degree granted to current Doctor of Pharmacy (PharmD) students after they complete at least one year of the PharmD program. In order to qualify for the BS in Pharmaceutical Sciences, students must have attended UW-Madison as an undergraduate prior to entering the School of Pharmacy and must meet all degree requirements.

### DEGREES/MAJORS/CERTIFICATES

- Pharmaceutical Sciences, B.S. (p. 1857)
- Pharmacology and Toxicology, B.S. (p. 1859)

### ENTERING THE SCHOOL

Admission to either the B.S. in Pharmacology and Toxicology or the Doctor of Pharmacy program is selective and competitive, and requires specific prerequisite coursework as well as a complete admissions application. Completion of required prerequisite coursework does not guarantee admission. Each applicant's admission credentials are considered not only on their own merit, but also in comparison with the credentials of other applicants.

For detailed information on prerequisites and the application for the B.S. in Pharmacology and Toxicology (PharmTox), see the major's "How to Get

In" tab in the (<http://guide.wisc.edu/undergraduate/pharmacy/pharmacy/pharmacology-toxicology-bs/#howtogetintext>) *Guide*.

Information about the required elements of the application and prerequisites for the Pharm.D. (Doctor of Pharmacy) program can be found on the School of Pharmacy website (<https://pharmacy.wisc.edu/programs/pharmd/admissions/>).

Most pre-pharmacy students are admitted to UW-Madison as College of Letters & Science students with an intention to pursue a School of Pharmacy program (PharmTox undergraduate degree **and/or** the professional Pharm.D. program). While our School of Pharmacy does not directly admit students from high school, we do offer comprehensive academic, admissions, and career advising to students who have expressed an interest either of these programs. Please refer to the Resources (<https://guide.wisc.edu/undergraduate/pharmacy/#resourcestext>) section to start exploring available resources and opportunities available for pre-School of Pharmacy students at UW-Madison.

### POLICIES AND REGULATIONS

## BACHELOR OF SCIENCE - PHARMACOLOGY AND TOXICOLOGY POLICIES

For a list of Pharmacology and Toxicology (PharmTox) undergraduate policies, including academic standing and probation policies, please visit the PharmTox Policy Handbook (<https://students.pharmacy.wisc.edu/pharm-tox-handbook/>).

### RESOURCES

## ACADEMIC ADVISING

If you're a current UW-Madison undergraduate student, you have access to dedicated, structured pre-pharmacy advising at the School of Pharmacy. Please choose the School of Pharmacy as your advising group option when you make your SOAR reservation in April. We're here to help you with:

- Career paths related to pharmacy, pharmacology, and toxicology
- Understanding prerequisites and developing a plan for completion
- Accessing courses and guidance on how to sequence classes
- PharmD and PharmTox curriculum and degree options
- Admissions selection criteria
- Application process and components

**Who is a pre-pharmacy student?** A pre-pharmacy student is anyone who is taking the courses necessary to be considered for admission to the Doctor of Pharmacy (PharmD) professional program and/or the BS in Pharmacology and Toxicology (PharmTox) at the UW-Madison School of Pharmacy. Completion of prerequisite coursework does not guarantee admission as admission is selective and competitive.

**How do I get started with pre-pharmacy advising?** Schedule your pre-pharmacy advising appointment using the Starfish app (<https://wisc.starfishsolutions.com/starfish-ops/>) in MyUW. Search for "Kendra Gurnee" to meet with the pre-PharmTox advisor or "Amy Zwaska" to meet with the pre-PharmD advisor. Any UW-Madison student with any major or



no major can access our dedicated pre-pharmacy advising services at the School of Pharmacy. Individual appointments are typically scheduled for 30 minutes.

If you experience any trouble with the scheduling process:

- You can get help with Starfish here (<https://advising.wisc.edu/facstaff/starfish/starfish-student-resources/>).
- You can also contact the School of Pharmacy Student and Academic Affairs Office at 608-262-6234 to set up your advising appointment.

Due to the selective nature of the PharmD and PharmTox admissions processes, interested students are encouraged to meet with School of Pharmacy advisors early and often to explore our programs and get valuable guidance about prerequisites, selection criteria, application timeline/procedures, and career opportunities. We recommend that you meet with your pre-pharmacy advisor at least once per semester.

For more information on preparing for and applying to our programs, visit our admissions resources for PharmD (<https://pharmacy.wisc.edu/academics/pharmd/admissions/>) and PharmTox (<https://pharmacy.wisc.edu/academics/pharm-tox/admissions/>).

## FINANCIAL AID

Students who seek financial assistance should contact the UW–Madison Office of Student Financial Aid (<https://financialaid.wisc.edu/>) for financial aid applications and information about scholarships, loans, grants, work-study programs, and student employment.

## SCHOOL OF PHARMACY SCHOLARSHIPS

The School of Pharmacy awards a variety of scholarships each year to admitted PharmTox and PharmD students. Awards are based on both academic merit and financial need. Students are invited to apply to School of Pharmacy–specific scholarships, as well as campus-wide or non-Pharmacy scholarships, through the Wisconsin Scholarship Hub (<https://wisc.academicworks.com/>).

## STUDENT ORGANIZATIONS

Students will find many organizations of interest, both in the School and across the UW–Madison campus. The School of Pharmacy student organizations website (<https://students.pharmacy.wisc.edu/student-life/student-organizations/>) has a comprehensive listing of student organizations and groups that are affiliated with the School.

## FACILITIES

The School of Pharmacy is located in Rennebohm Hall on the west side of campus, near University Hospital and Clinics and Health Sciences Learning Center. The School of Pharmacy provides students and faculty with the finest possible physical environment for professional pharmacy and for research in pharmaceutical fields of study.

## SCHOOL OF PHARMACY

### DEGREES/MAJORS/CERTIFICATES

- Pharmaceutical Sciences, B.S. (p. 1857)
- Pharmacology and Toxicology, B.S. (p. 1859)

## PHARMACEUTICAL SCIENCES, B.S.

The BS in Pharmaceutical Sciences **is not a major**, but is a milestone degree granted to current Doctor of Pharmacy (PharmD) students while working toward the PharmD degree. In order to qualify for the BS in Pharmaceutical Sciences, students must have attended UW–Madison prior to entering the School of Pharmacy, and must meet all degree requirements. More detailed information about this degree may be found on the school website (<https://pharmacy.wisc.edu/programs/pharmd/curriculum/bs-ps/>).

Information about our Doctor of Pharmacy program (PharmD) can be found at <https://pharmacy.wisc.edu/programs/pharmd/>. The PharmD is required to be eligible to take the North American Pharmacist Licensure Examination (NAPLEX) and be registered and licensed as a pharmacist.

Students interested in pursuing an **undergraduate** degree offered by the School of Pharmacy may want to investigate the BS Pharmacology and Toxicology (p. 1859) program. This interdisciplinary major in the biomedical sciences can serve as a foundation for further education in graduate or professional degree programs, or for entry-level scientific employment.

### HOW TO GET IN

The B.S. in Pharmaceutical Sciences is a non-admitting milestone degree. Students earn this credential once degree requirements have been met while working toward their Doctor of Pharmacy (Pharm.D.) degree. For more information on how to apply, see the Doctor of Pharmacy Program's Admissions (<https://pharmacy.wisc.edu/academics/pharmd/admissions/>).

### REQUIREMENTS

## UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

- General Education
- Breadth—Humanities/Literature/Arts: 6 credits
  - Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
  - Breadth—Social Studies: 3 credits
  - Communication Part A & Part B \*
  - Ethnic Studies \*
  - Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## MAJOR REQUIREMENTS

The bachelor's degree will be awarded once all Pharmaceutical Sciences major requirements are met, as well as the University General Education Requirements and other coursework totaling at least 120 credits.

Code	Title	Credits
PHM SCI 420	Physicochemical Principles of Drug Formulation and Delivery	3
PHM SCI 432	Pharmaceutical Biochemistry	4
PHARMACY 423	Pharmacy Integrated Learning Laboratory	1
PHM PRAC 438	Nonprescription Medications and Self-Care	2
PHM PRAC 461	Pathways in Pharmacy Practice	1
PHM PRAC 650	Comprehensive Immunization Delivery	1
S&A PHM 411	Pharmacy in the Health Care System	3
PHM SCI 531	Medicinal Chemistry I	3
PHM SCI 541	Pharmaceutical Calculations, Dispensing and Compounding	3
PHARMACY 434	Pharmaceutical Genetics and Immunology	2
PHARMACY 621	Pharmacokinetics	3
PHM PRAC 426	Pharmacy Practice Experience I	1
PHM PRAC 462	Professional Development and Engagement I—Developing Your Professional Identity	1
S&A PHM 414	Social and Behavioral Aspects of Pharmacy Practice	3
<b>Total Credits</b>		<b>31</b>

## ADDITIONAL NOTES

Foreign language coursework can count towards the "Humanities/Literature/Arts" gen ed requirement.

AP, IB, retro-credits, and credit-granting transfer coursework from other institutions (including coursework completed while in high school) all count toward the elective credit requirement.

Students must also complete coursework appropriate for admissions to the PharmD program.

## QUALITY OF WORK

Students must have a minimum 2.000 cumulative grade point average.

School of Pharmacy academic policies (regarding matters such as academic and professional conduct, academic progress/probation, honor roll, pass/fail registration, and independent study coursework) are found in the PharmD student policy handbook.

## UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

## LEARNING OUTCOMES

1. Drug factors. Apply knowledge of the physical, chemical, pharmacologic, and formulation properties of drugs and relate how these properties influence drug parameters (such as kinetics, pharmacodynamics, stability, dosage form design, and treatment-related outcomes). Differentiate among the major therapeutic drug classes based on mechanisms of action, clinical use and adverse effects, contraindications, drug interactions, dosage forms, and dosing regimens.
2. Patient factors. Collect, integrate and apply knowledge of a patient's biochemistry, anatomy, physiology, genomics, culture, socio-behavioral characteristics, and pathophysiologic states to develop an individualized patient care plan using drug factors that will improve therapeutic outcomes, minimize drug reactions, reduce adverse events, and increase adherence.
3. Drug kinetics. Design or modify dosage regimens using patient-specific or population pharmacokinetic data, plasma concentration-time profile of drugs, and factors that alter them.
4. Product preparation. Compound parenteral and non-parenteral drug products using appropriate calculations, pharmaceutical components, and techniques. Demonstrate a commitment to patient safety by assuring total accuracy in calculation, preparation, labeling and dispensing of prescription and medication orders.
5. Teamwork. Collaborate effectively with pharmacy colleagues, other healthcare professionals, scientists, and patients and/or their caregivers.

6. Health disparities. Identify causes of health disparities and incorporate principles of cultural awareness, sensitivity, and competence into plans to address these issues.
7. Professional awareness. Identify emerging health-related issues, products, and services and analyze their potential implications for: disease prevention and/or treatment services; management of human, physical, medical, information, and technological resources involved in providing patient care; and patient-specific and population-based therapeutic outcomes.

## PHARMACOLOGY AND TOXICOLOGY, B.S.

**Pharmacology and Toxicology (PharmTox)** is an undergraduate major offered through the School of Pharmacy; successful completion of program requirements results in earning the Bachelor of Science–Pharmacology and Toxicology degree. Pharmacology and toxicology are related biomedical science disciplines. **Pharmacology** is the study of the sites, properties, effects, and mechanisms of drug action—the interactions of chemicals with biological systems. **Toxicology** addresses adverse effects of chemicals on humans and animals and includes exposure assessment, hazard identification, dose response assessment, and risk characterization. Both subjects integrate multiple scientific disciplines and rely on cutting-edge biotechnological approaches to gain insight into drug and toxicant action at the molecular level. Though the degree is titled “Pharmacology and Toxicology,” the program’s curriculum is multidisciplinary across various biomedical sciences.

The PharmTox degree/major has a selective and competitive admissions process, requiring completion of 60 college credits and specific prerequisite coursework. These typically take two academic years (freshman and sophomore years) to complete. Prerequisite coursework can be done at UW–Madison or at most accredited colleges and universities (see this website (<https://pharmacy.wisc.edu/programs/pharm-tox/admissions/transfers/>) for course equivalencies from other universities). Questions about course equivalencies from other colleges or universities can also be addressed with the PharmTox advisor.

At UW–Madison, pre–PharmTox students are usually in either the College of Letters & Science or the College of Agricultural and Life Sciences during their freshman and sophomore years while taking prerequisite coursework and preparing to apply to the major. Students can request to be assigned to the PharmTox advisor during this time, in addition to having a primary academic advisor in their current school. It is important to stay in contact with the PharmTox advisor to remain up-to-date with admission requirements and program changes. Applications are typically due in February, with students being admitted to the major and beginning core coursework in fall of the following year (typically junior year). The core major curriculum typically requires two years to complete (junior and senior years).

For those interested in becoming a licensed pharmacist, information about our Doctor of Pharmacy program (PharmD) can be found at <https://pharmacy.wisc.edu/programs/pharmd/>. The PharmD is required to be eligible to take the North American Pharmacist Licensure Examination (NAPLEX) and be registered and licensed as a pharmacist.

## HOW TO GET IN

See the School of Pharmacy Academic and Admission Policies (p. 1856).

## APPLICATION

**Application to the BS in Pharmacology and Toxicology is required as the program's size is limited.** Students (both at UW–Madison and at other institutions) typically apply to the program by the beginning of February in their sophomore year for subsequent fall semester admission; students are not admitted at any other time of the year. (*Note that potential transfer students must also apply to UW–Madison itself* (<https://www.admissions.wisc.edu/apply/transfer/deadlines.php>)). Students are notified by the end of March regarding their admission status. Applications and current due dates can be found on our website (<https://pharmacy.wisc.edu/programs/pharm-tox/admissions/>).

## PREREQUISITES

To be eligible to apply, students must complete the following courses by the end of the summer semester prior to entering the program. Potential transfer students from a wide variety of regional institutions can find course equivalents (from their current university/college) on this School of Pharmacy webpage (<https://pharmacy.wisc.edu/programs/pharm-tox/admissions/transfers/equivalencies/>).

### CALCULUS I

Code	Title	Credits
Select one of the following options: <sup>1</sup>		
MATH 221	Calculus and Analytic Geometry I	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	

<sup>1</sup>

MATH 211 Calculus taken at UW–Madison does not fulfill the Calculus I requirement for this major.

### GENERAL AND ORGANIC CHEMISTRY

Code	Title	Credits
Select one of the following general chemistry options:		
CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
Select ALL of the following organic chemistry courses:		
CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

## INTRODUCTORY BIOLOGY

Code	Title	Credits
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Select one of the following options:

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	

### COMMUNICATION

The UW–Madison Communication Part A requirement must be fulfilled.

### SOCIAL SCIENCE

Any course that qualifies as social science (S or Z) credit, 3 credits required.

### OTHER COLLEGE COURSES

Sixty (60) credits must be completed by the end of the summer semester prior to entering the program. AP, IB, retrocredits, and credit-granting transfer coursework from other institutions (including coursework completed while in high school) all count toward the 60 credits.

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (p. 32) section of the *Guide*.

General  
Education

- Breadth–Humanities/Literature/Arts: 6 credits
- Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- Breadth–Social Studies: 3 credits
- Communication Part A & Part B \*
- Ethnic Studies \*
- Quantitative Reasoning Part A & Part B \*

\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

## OVERVIEW OF REQUIREMENTS

The Pharmacology and Toxicology BS degree requires the following groups of coursework:

- University General Education requirements (above - those that are also prerequisite requirements will be completed before entering the program; remaining gen ed requirements can be completed at any time prior to graduation)
- Prerequisite requirements (completed prior to admittance/entrance to the program)
- Pharmacology and Toxicology major requirements (mostly completed after entering the program, though some courses can be completed earlier)

The PharmTox degree does not require any additional breadth courses beyond the University General Education requirements. Foreign language coursework can count towards the "Humanities/Literature/Arts" gen ed requirement.

School of Pharmacy academic policies (regarding matters such as academic and professional conduct, academic progress/probation, honor roll, pass/fail registration, and independent study coursework) are found in the PharmTox student policy handbook (<https://pharmacy.wisc.edu/student-resources/>).

### PREREQUISITES CALCULUS I

Code	Title	Credits
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Select one of the following options:<sup>1</sup>

MATH 221	Calculus and Analytic Geometry 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	

1

MATH 211 Calculus taken at UW–Madison does not fulfill the Calculus I requirement for this major.

### GENERAL AND ORGANIC CHEMISTRY

Code	Title	Credits
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Select one of the following general chemistry options:

CHEM 103 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	

CHEM 115	Chemical Principles I	
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Select ALL of the following organic chemistry courses:

CHEM 343	Organic Chemistry I	3
CHEM 345	Organic Chemistry II	3
CHEM 344	Introductory Organic Chemistry Laboratory	2

## INTRODUCTORY BIOLOGY

Code	Title	Credits
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Select one of the following options:

BIOLOGY/ BOTANY/ ZOOLOGY 151 & BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology and Introductory Biology	
BIOLOGY/ ZOOLOGY 101 & BIOLOGY/ ZOOLOGY 102 & BOTANY/ BIOLOGY 130	Animal Biology and Animal Biology Laboratory and General Botany	
BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory	

## COMMUNICATION

The UW–Madison Communication Part A requirement must be fulfilled.

## SOCIAL SCIENCE

Any course that qualifies as social science (S or Z) credit, 3 credits required.

## OTHER COLLEGE COURSES

Sixty (60) credits must be completed by the end of the summer semester prior to entering the program. AP, IB, retrocredits, and credit-granting transfer coursework from other institutions (including coursework completed while in high school) all count toward the 60 credits.

## PHARMACOLOGY AND TOXICOLOGY MAJOR REQUIREMENTS

**Students must take most of their major-level coursework in very specific semesters in order to graduate within four semesters of starting the program, due to prerequisites and fall or spring-only courses - see four year plans (p. 1864) for course sequences.** It may be possible to take some major-level courses earlier if prerequisites are met; consult the advisor. The five credits of elective coursework, statistics, genetics, and physics requirements can be completed at any time, including prior to admission to the program. The directed/independent study requirement must be performed after matriculation into the program (i.e. the first fall semester officially declared in the major or any semester thereafter).

## DIRECTED/INDEPENDENT STUDY (699), 2 CREDITS

Must be completed after matriculation into the major (i.e. the first fall semester officially declared in the major or any semester thereafter) and have prior approval to meet PharmTox major requirements. Students should not wait until the final semester to try to fulfill this requirement, as it can be difficult to find a research opportunity close to graduation. The research-based directed/independent study (typically a course numbered 699) must be in a biological, chemical, or biomedical sciences department, and can include laboratory-based research, library or literature-based research, or clinical research. Experiences such as peer mentoring or teaching assistance, even if a 699 course is used for credit, cannot fulfill this requirement.

## PHYSICS I AND II

Code	Title	Credits
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Select one of the following options (consult with advisor on recommended sequences):

PHYSICS 103 & PHYSICS 104	General Physics and General Physics	8
PHYSICS 201 & PHYSICS 202	General Physics and General Physics	10
PHYSICS 207 & PHYSICS 208	General Physics and General Physics	10

## STATISTICS

Code	Title	Credits
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Select one of the following:

STAT 240	Data Science Modeling I	4
STAT 301	Introduction to Statistical Methods	3
STAT 371	Introductory Applied Statistics for the Life Sciences (recommended)	3
STAT 324	Introductory Applied Statistics for Engineers	3
STAT/B M I 541	Introduction to Biostatistics	3

## BIOCHEMISTRY

Code	Title	Credits
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BIOCHEM 507 & BIOCHEM 508	General Biochemistry I and General Biochemistry II	6
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## PHYSIOLOGY

Code	Title	Credits
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Select one of the following:

ANAT&PHY 335	Physiology	5
BIOCORE 485 & BIOCORE 486	Principles of Physiology and Principles of Physiology Laboratory	5

## GENETICS

Code	Title	Credits
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Select one of the following:

GENETICS 466	Principles of Genetics	3
GENETICS 467 & GENETICS 468	General Genetics 1 and General Genetics 2 <sup>1</sup>	6

BIOCORE 381 & BIOCORE 382 & BIOCORE 383 & BIOCORE 384	Evolution, Ecology, and Genetics and Evolution, Ecology, and Genetics Laboratory and Cellular Biology and Cellular Biology Laboratory <sup>2</sup>	10
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1

If students choose GENETICS 467 & GENETICS 468, 3 credits from this sequence will count towards the 5 required elective credits.

2

Students who have taken BIOCORE for introductory biology will have typically also completed the genetics requirement via BIOCORE courses taken sophomore/second year.

## PATHOLOGY

Code	Title	Credits
PATH 404	Pathophysiologic Principles of Human Diseases	3

## PHARMACUETICAL SCIENCES

Code	Title	Credits
All of the following are required:		
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology	2
PHM SCI 679	Pharmacology and Toxicology Seminar (taken twice) <sup>1</sup>	1
PHM SCI/PHMCOL-M 521 & PHM SCI/ PHMCOL-M 522	Pharmacology I and Pharmacology II	6
PHM SCI 623 or PHM SCI 581	Pharmacology III Molecular and Cellular Principles in Pharmacology	3
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHMCOL-M/ POP HLTH 625 & PHM SCI/ M&ENVTOX/PATH/ PHMCOL-M/ POP HLTH 626	Toxicology I and Toxicology II	6

1

Students need to take PHM SCI 679 in both their first and second years in the major in spring semesters (typically junior and senior years); the course is repeatable for degree credit.

## ELECTIVES IN THE MAJOR

Students must complete at least 5 elective credits in the pharmacology and toxicology major from the below list. Electives in the pharmacology and toxicology major are available within the School of Pharmacy and in many departments. It is suggested that students select electives in consultation with their advisor. Another option for fulfilling a portion or all of these 5 credits are additional directed/independent study (699) credits beyond the minimum 2 credits required for the major. Additional 699 credits must be approved by the PharmTox program to count towards the elective requirement if they are not done under the same principle investigator that was approved for the original two credits required.

## Pharmaceutical Sciences/Pharmacy

Code	Title	Credits
PHM SCI 420	Physicochemical Principles of Drug Formulation and Delivery	3
PHM SCI/B M E 430	Biological Interactions with Materials	3
PHM SCI 531	Medicinal Chemistry I	3
PHM SCI 532	Medicinal Chemistry II	2
PHARMACY 640	Appropriate Use of Abused Drugs	2

## Anatomy & Physiology

Code	Title	Credits
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory	2

## Animal Sciences

Code	Title	Credits
AN SCI/DY SCI 434	Reproductive Physiology	3

## Biochemistry

Code	Title	Credits
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM 550	Principles of Human Disease and Biotechnology	2
BIOCHEM 551	Biochemical Methods	4
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3

## Biology Core Curriculum (BIOCORE)

Code	Title	Credits
BIOCORE 587	Biological Interactions	3

## Chemistry

Code	Title	Credits
CHEM 547	Advanced Organic Chemistry	3
CHEM 561	Physical Chemistry	3
CHEM 565	Biophysical Chemistry	4
CHEM 562	Physical Chemistry	3
CHEM 563	Physical Chemistry Laboratory I	1
CHEM 564	Physical Chemistry Laboratory II	1

## Environmental Studies

Code	Title	Credits
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3

**Food Science**

Code	Title	Credits
FOOD SCI 550	Fermented Foods and Beverages	2

**Genetics**

Code	Title	Credits
GENETICS 545	Genetics Laboratory	2

**Math**

Code	Title	Credits
MATH 605	Stochastic Methods for Biology	3

**Medical Microbiology & Immunology**

Code	Title	Credits
M M & I 301	Pathogenic Bacteriology	2
M M & I 341	Immunology	3
M M & I/PATH-BIO 528	Immunology	3

**Medical Physics**

Code	Title	Credits
MED PHYS/ H ONCOL 410	Radiobiology	2-3

**Microbiology**

Code	Title	Credits
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory	2
MICROBIO 305	Critical Analyses in Microbiology	1

**Oncology**

Code	Title	Credits
ONCOLOGY 401	Introduction to Experimental Oncology	2
ONCOLOGY/ PL PATH 640	General Virology-Multiplication of Viruses	3

**Psychology**

Code	Title	Credits
PSYCH 450	Primates and Us: Insights into Human Biology and Behavior	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH/ ZOOLOGY 523	Neurobiology	3

**Toxicology (Molecular & Environmental Toxicology)**

Code	Title	Credits
M&ENVTOX/ CIV ENGR/ SOIL SCI 631	Toxicants in the Environment: Sources, Distribution, Fate, & Effects	3
M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 632	Ecotoxicology: The Chemical Players	1
M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 633	Ecotoxicology: Impacts on Individuals	1

M&ENVTOX/ AGRONOMY/ ENTOM/ F&W ECOL 634	Ecotoxicology: Impacts on Populations, Communities and Ecosystems	1
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**Zoology**

Code	Title	Credits
ZOOLOGY 425	Behavioral Ecology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates	5
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY 555	Laboratory in Developmental Biology	3
ZOOLOGY 570	Cell Biology	3

**QUALITY OF WORK REQUIREMENTS AND PASS/FAIL**

Students must have a 2.000 cumulative grade point average at the time of graduation in order to earn a Pharmacology and Toxicology BS degree.

No course that is used for Pharmacology and Toxicology degree requirements may be taken as pass/fail and must be taken for a letter grade (AP, IB, or other test credits or placement exemptions are excluded from this requirement). This includes all prerequisite coursework, major requirements, and University General Education requirements.

**UNIVERSITY DEGREE REQUIREMENTS**

**Total Degree** To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.

**LEARNING OUTCOMES**

1. Demonstrate a knowledge and understanding of the supportive biomedical fields.
2. Demonstrate a knowledge and understanding of Pharmacology.
3. Demonstrate a knowledge and understanding of Toxicology.
4. Understand scientific principles of laboratory design and presentation of scientific data.

## FOUR-YEAR PLAN

A minimum of 120 credits is required to earn the BS in Pharmacology and Toxicology. Below are sample four-year plans for the Pharmacology and Toxicology major, incorporating both prerequisites and major coursework. They focus on science coursework sequencing and do not take into account factors such as AP or advance standing credits, additional summer courses, study abroad, or preparing for standardized tests like the MCAT or PCAT.

It is **critical** that you talk with your advisor about your tentative plan for course sequences and prerequisites, which courses are offered fall vs. spring vs. summer, etc.

### EXAMPLE PLAN: CHEM 103/104

#### Freshman

Fall	Credits	Spring	Credits
CHEM 103		4 CHEM 104	5
MATH 221		5 STAT 371	3
Communication A		3 Social Science	3-4
Electives		3-4 Electives	3-4
<b>15-16</b>		<b>14-16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 345	3
ZOOLOGY/BIOLOGY/ BOTANY 151 (or Biocore)		5 CHEM 344	2
Ethnic Studies		3-4 ZOOLOGY/BIOLOGY/ BOTANY 152 (or Biocore)	5
Electives		3 Humanities	3-4
<b>14-15</b>		<b>13-14</b>	

#### Junior

Fall	Credits	Spring	Credits
BIOCHEM 507		3 BIOCHEM 508	3
ANAT&PHY 335 (or Biocore)		5 PATH 404	3
PHM SCI 558		2 PHM SCI 679	1
Humanities		3 PHYSICS 103	4
Research (699) credits		2-3 Electives in the Major or add'l research credits	2-3
<b>15-16</b>		<b>13-14</b>	

#### Senior

Fall	Credits	Spring	Credits
PHM SCI/PHM COL- M 521		3 PHM SCI/PHM COL- M 522	3
PHM SCI/M&ENVTOX/ ONCOLOGY/PHM COL- M/POP HLTH 625		3 PHM SCI/M&ENVTOX/ PATH/PHM COL-M/ POP HLTH 626	3
PHM SCI 623 <sup>1</sup>		3 PHM SCI 679	1
PHYSICS 104		4 GENETICS 466 (not req. if Biocore taken)	3

Electives in the Major or add'l research credits	2-3 Electives	3
<b>15-16</b>		<b>13</b>

#### Total Credits 112-120

1

PHM COL-M/PHM SCI 521 Pharmacology I and PHM SCI 623 Pharmacology III are taken concurrently/in the same semester; PharmTox students can take PHM SCI 623 Pharmacology III before taking PHM COL-M/PHM SCI 522 Pharmacology II.

### EXAMPLE PLAN: CHEM 109; BIOLOGY IN FIRST YEAR

#### Freshman

Fall	Credits	Spring	Credits
CHEM 109		5 CHEM 343	3
MATH 221		5 ZOOLOGY/BIOLOGY/ BOTANY 151	5
Communication A		3 Social Science	3-4
Electives		3-4 Electives	3-4
<b>16-17</b>		<b>14-16</b>	

#### Sophomore

Fall	Credits	Spring	Credits
ZOOLOGY/BIOLOGY/ BOTANY 152		5 CHEM 344	2
CHEM 345		3 PHYSICS 103 or 207	4-5
Ethnic Studies		3-4 STAT 371	3
Humanities		3-4 Humanities	3-4
		Electives	2-3
<b>14-16</b>		<b>14-17</b>	

#### Junior

Fall	Credits	Spring	Credits
BIOCHEM 507		3 BIOCHEM 508	3
PHM SCI 558		2 PATH 404	3
ANAT&PHY 335		5 PHM SCI 679	1
Research (699) credits		2 PHYSICS 104 or 208	4-5
Electives		3 Electives in the Major or add'l research credits	2-3
<b>15</b>		<b>13-15</b>	

#### Senior

Fall	Credits	Spring	Credits
PHM SCI/PHM COL- M 521		3 PHM SCI/PHM COL- M 522	3
PHM SCI/M&ENVTOX/ ONCOLOGY/PHM COL- M/POP HLTH 625		3 PHM SCI/M&ENVTOX/ PATH/PHM COL-M/ POP HLTH 626	3
PHM SCI 623 <sup>1</sup>		3 PHM SCI 679	1
Electives in the Major or add'l research credits		2-3 GENETICS 466	3
Electives		3 Electives	3-4
<b>14-15</b>		<b>13-14</b>	

#### Total Credits 113-125



1

PHM COL-M/PHM SCI 521 Pharmacology I and PHM SCI 623 Pharmacology III are taken concurrently/in the same semester; PharmTox students can take PHM SCI 623 Pharmacology III before taking PHM COL-M/PHM SCI 522 Pharmacology II.

## EXAMPLE PLAN: CHEM 103 SPRING OF FIRST YEAR

### Freshman

Fall	Credits	Spring	Credits
MATH 112, 113, 114, or 171	3-5	CHEM 103	4
Social Science	3-4	MATH 221 or 217	5
Communication A	3	Humanities	3-4
Electives	3-4	Electives	3-4
<b>12-16</b>		<b>15-17</b>	

### Sophomore

Fall	Credits	Spring	Credits	Summer	Credits
CHEM 104	5	CHEM 343	3	CHEM 345	3
ZOOLOGY/ BIOLOGY/ BOTANY 151	5	ZOOLOGY/ BIOLOGY/ BOTANY 152	5	CHEM 344	2
Ethnic Studies	3-4	Humanities	3-4		
Electives	3	Electives in the Major	3		
<b>16-17</b>		<b>14-15</b>		<b>5</b>	

### Junior

Fall	Credits	Spring	Credits
BIOCHEM 507	3	BIOCHEM 508	3
PHM SCI 558	2	PATH 404	3
ANAT&PHY 335	5	PHM SCI 679	1
STAT 371	3	PHYSICS 103	4
		Research (699) credits	2-3
<b>13</b>		<b>13-14</b>	

### Senior

Fall	Credits	Spring	Credits
PHM SCI/ PHM COL-M 521	3	PHM SCI/ PHM COL-M 522	3-4
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHM COL-M/ POP HLTH 625	3	PHM SCI/ M&ENVTOX/ PATH/ PHM COL-M/ POP HLTH 626	3
PHM SCI 623 <sup>1</sup>	3	PHM SCI 679	1
PHYSICS 104	4	GENETICS 466	3
Electives in the Major or add'l research credits	2-3	Electives	3-4
<b>15-16</b>		<b>13-15</b>	

**Total Credits 116-128**

1

PHM SCI/PHM COL-M 521 Pharmacology I and PHM SCI 623 Pharmacology III are taken concurrently/in the same semester; PharmTox students can take PHM SCI 623 Pharmacology III before taking PHM SCI/PHM COL-M 522 Pharmacology II.

## THREE-YEAR PLAN

Below is a sample 3 year plan for the Pharmacology and Toxicology major, incorporating prerequisites, major coursework, and university-wide breadth and general education requirements. Students interested in graduating in three years should meet with the PharmTox academic advisor early and often to discuss feasibility, appropriate course sequencing, post-graduation plans (careers, graduate school, etc.), and other considerations.

While there are many advantages to attending four years of college, including making the most of research and study abroad opportunities, exploring alternative majors, completing additional majors and certificates, developing skills and interests through student groups, and personal growth, students may have various reasons for wanting to graduate in three years, and the PharmTox advisor will work with students to help them prioritize their goals.

This example plan assumes that students will:

- Enter their first year at UW-Madison with at least 25 advanced standing credits (to be able to meet the PharmTox application prerequisite of 60 credits by the start of their second year), including equivalency credit for Introductory Biology (ZOOLOGY/BIOLOGY/BOTANY 151). Entering with fewer credits would require more credits in the fall, spring, and/or summer terms in the first year than in the example plan.
- Place into or are eligible to enroll in MATH 221 for first semester.
- Apply to the PharmTox major during their first year for admission for fall of their second year and have all prerequisite coursework complete by the end of the summer term after the first year.
- Enroll in enough credits each term to earn 120 total credits. Some terms may require more or less credits than the example plan, depending on the number of advanced standing credits a student brings in.

Summer coursework will be required after the first year for students without chemistry advanced standing credits, in order to complete general and organic chemistry before the start of the second year. Other summer coursework is not necessarily required, but may be helpful to alleviate credit loads and course combinations in fall or spring terms.

### First Year

Fall	Credits	Spring	Credits	Summer	Credits
MATH 221	5	CHEM 343	3	CHEM 345	3
CHEM 109	5	ZOOLOGY/ BIOLOGY/ BOTANY 152	5	CHEM 344	2
Communication A	3	Social Science	3-4		
Humanities	3-4	Ethnic Studies	3-4		
<b>16-17</b>		<b>14-16</b>		<b>5</b>	

**Second Year**

Fall	Credits	Spring	Credits
BIOCHEM 507	3	BIOCHEM 508	3-4
ANAT&PHY 335	5	PATH 404	3
PHM SCI 558	2	PHM SCI 679	1
STAT 371 or 301	3	PHYSICS 103	4
Research (699) credits	2	Electives in the Major or add'l research credits	2-3
<b>15</b>		<b>13-15</b>	

**Third Year**

Fall	Credits	Spring	Credits
PHM SCI/ PHM COL-M 521	3	PHM SCI/ PHM COL-M 522	3-4
PHM SCI/ M&ENVTOX/ ONCOLOGY/ PHM COL-M/ POP HLTH 625	3	PHM SCI/ M&ENVTOX/ PATH/ PHM COL-M/ POP HLTH 626	3
PHM SCI 623 <sup>1</sup>	3	PHM SCI 679	1
PHYSICS 104	4	GENETICS 466	3
Humanities	3-4	Electives in the Major or add'l research credits	2-3
		Electives	3
<b>16-17</b>		<b>15-17</b>	

**Total Credits 94-102**

1

PHM SCI/PHM COL-M 521 Pharmacology I and PHM SCI 623 Pharmacology III are taken concurrently/in the same semester; PharmTox students can take PHM SCI 623 Pharmacology III before taking PHM COL-M/PHM SCI 522 Pharmacology II.

**ADVISING AND CAREERS****ADVISING**

Pre-PharmTox students are often in the College of Letters & Science or the College of Agricultural and Life Sciences during their freshman and sophomore years while they are taking prerequisite coursework and preparing to apply to the major. Students can request to be assigned to the PharmTox advisor during this time, in addition to having a primary academic advisor in their current school/college, and are welcome to meet with the PharmTox advisor at any time.

The PharmTox advisor advises both current undergraduates and prospective high school/transfer students interested in learning more about the major. Appointments may be scheduled by calling (608) 262-6234 (for prospective high school/transfer students) or scheduled online via Starfish (<https://wisc.starfishsolutions.com/starfish-ops/>) (for current students). Advising is also available at SOAR for incoming students and includes curriculum planning and introductions to enrollment tools. The advisor can connect prospective undergraduate students with upperclassmen and alumni with similar interests. Once admitted to the major, students will have the PharmTox advisor assigned as their primary academic advisor.

**CAREERS**

Students completing the program will be well qualified to pursue entry-level scientific career employment (<https://pharmacy.wisc.edu/programs/pharm-tox/careers-in-pharm-tox/>) in industry (e.g., biomedical; biotechnology; consumer products; contract research organizations; regulatory affairs; pharmaceutical), in academic basic science and clinical research laboratories, or in various agencies of government focused on science, health, or the environment. The program's depth and breadth has proved to be an excellent foundation for graduate work in pharmacology, toxicology, or other related biomedical sciences, as well as for medical school, veterinary medicine, and other health professions schools (e.g., pharmacy, dental, optometry, public health). For students who tailor their general education and elective coursework appropriately, the Pharmacology and Toxicology program can also uniquely launch students into scientific writing, business or regulatory positions, environmental positions, or law school. As future professionals aware of the pharmacological and toxicological sciences, pharmacology and toxicology graduates are well poised to make meaningful improvements in human and animal health.

Statistical information about immediate post-degree work or advanced degree attainment for alumni in the last decade may be found on the School website (<https://pharmacy.wisc.edu/programs/pharm-tox/student-outcomes/>). Due in part to its small size, the program has strong connections with its 400+ alumni who are located across the country and the globe. The PharmTox advisor can help students connect with alumni to explore careers and learn about employers.

Available career resources:

- The PharmTox advisor can assist with resume building, interview preparation, and career exploration, and also gives all PharmTox students access to a virtual career center via Canvas.
- Many L&S and CALS career workshops and fairs are open to all students, including PharmTox students. The Career Exploration Center (<https://cec.ccas.wisc.edu/>) (CEC) is also available to students who are in the early stages of career exploration, especially those who have lots of ideas or no ideas yet.
- Current students can join the Pharmacology and Toxicology LinkedIn group (<https://www.linkedin.com/groups/12266662/>) to network with fellow students and alumni.
- Handshake (<https://app.joinhandshake.com/auth/?auth=648>) features employer job postings specifically available to UW-Madison students, and is a great place to browse for internships and full-time jobs. Students can also post resumes and allow employers to contact them regarding potential employment.
- The Center for Prehealth Advising (<http://www.prehealth.wisc.edu>) assists students with preparing for and applying to professional healthcare programs, including medicine, physical therapy, physician assistant, dentistry, and more.

**PEOPLE****FACULTY DIRECTOR**

Johnson, Jeffrey (Professor, Pharmaceutical Sciences)

## ACADEMIC STAFF AFFILIATED WITH PROGRAM

Gurnee, Kendra (Program Manager and Advisor)

Kopacek, Karen (Associate Dean for Student Affairs)

de Villiers, Melgardt (Vice Dean and Associate Dean for Academic Affairs)

### ADMISSIONS/OVERSIGHT COMMITTEE

Altschaf, Jeremy (Assistant Dean - Admissions)

Dai, Jun (Assistant Professor, Pharmaceutical Sciences)

Gitter, Christopher (Alumnus)

Gurnee, Kendra (Advisor and Program Coordinator)

Hong, Seungpyo (Professor, Pharmaceutical Sciences)

Johnson, Jeffrey (Professor, Pharmaceutical Sciences)

Vežina, Chad (Associate Professor, Comparative Biosciences)

de Villiers, Melgardt (Vice Dean and Associate Dean for Academic Affairs)

## WISCONSIN EXPERIENCE

The following opportunities can help students connect with other students interested in pharmacology, toxicology, and other biomedical sciences, build relationships with faculty and staff, and contribute to out-of-classroom learning:

- The program's small size and cohort-based model makes it easy to arrange study groups, tutoring, and social events, and funds can be requested to support these activities.
- Students have access to a student commons, group study rooms, lockers, and a variety of gathering spaces in Rennebohm Hall. Ebling Library, located adjacent to Rennebohm Hall in the Health Sciences Learning Center, serves the School of Pharmacy student body, in addition to that of students from medicine, veterinary medicine, and nursing.
- The School of Pharmacy hosts a variety of student organizations (<https://pharmacy.wisc.edu/student-organizations/>), several of which are available to PharmTox students. Junior and senior class presidents are elected each year and represent each cohort by providing feedback, as well as serve on various School of Pharmacy committees to represent the PharmTox program.
- Students are required to participate in a scientific research experience for at least one semester after being admitted to the major, though continued research involvement before and after admission to the major is highly encouraged. The Biocommons website (<http://biology.wisc.edu/finding-mentor/>) has step-by-step information on how to find a research opportunity, and students can also speak with the advisor for additional guidance.
- Study abroad is definitely possible, although a winter session, spring break, or summer session experience fits most easily with the PharmTox curriculum. Visit the Study Abroad Major Advising Page for PharmTox (<https://studyabroad.wisc.edu/academics/major-advising-pages-maps/pharmacology-and-toxicology/>) to learn more.
- One to two travel awards are given annually to allow seniors to attend a national conference in the field of pharmacology and toxicology, and

funding is often available to facilitate travel for interested students to regional conferences near Madison.

- The annual PharmD/PharmTox Research Symposium provides students with an opportunity to present their research projects each spring.

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African American Studies, B.A. ....	383	Asian American Studies Program .....	439
African American Studies, B.S. ....	387	Asian Languages and Cultures .....	441
African American Studies, Certificate .....	391	Asian Languages and Cultures, B.A. ....	443
African Cultural Studies .....	392	Asian Languages and Cultures, B.S. ....	455
African Cultural Studies, B.A. ....	393	Asian Languages and Cultures: East Asian Studies .....	451
African Cultural Studies, B.S. ....	398	Asian Languages and Cultures: East Asian Studies .....	462
African Studies, Certificate .....	896	Asian Languages and Cultures: South Asian Studies .....	452
Agricultural and Applied Economics .....	51	Asian Languages and Cultures: South Asian Studies .....	464
Agricultural and Applied Economics, B.S. ....	52	Asian Languages and Cultures: Southeast Asian Studies .....	454
Agricultural and Life Sciences - College-Wide .....	63	Asian Languages and Cultures: Southeast Asian Studies .....	465
Agricultural Business Management, B.S. ....	56	Astronomy .....	497
Agronomy .....	66	Astronomy-Physics, B.A. ....	498
Agronomy, B.S. ....	67	Astronomy-Physics, B.S. ....	502
American Indian and Indigenous Studies, Certificate .....	404	Athletic Healthcare, Certificate .....	1722
American Indian and Indigenous Studies Program .....	403	Atmospheric and Oceanic Sciences .....	506
Animal and Dairy Sciences .....	72	Atmospheric and Oceanic Sciences, B.A. ....	506
Animal and Veterinary Biosciences, B.S. ....	73	Atmospheric and Oceanic Sciences, B.S. ....	511
Animal Sciences, B.S. ....	79	Bacteriology .....	90
Anthropology .....	405	Biochemistry .....	114
Anthropology, B.A. ....	407	Biochemistry, B.A. (L&S) .....	1115
Anthropology, B.S. ....	412	Biochemistry, B.S. (CALs) .....	115
Applied Mathematics, Engineering, and Physics, B.S. AMEP .....	1150	Biochemistry, B.S. (L&S) .....	1124
Applied Social Science, BLS .....	1112	Biological Systems Engineering .....	124
Archaeology, Certificate .....	417	Biological Systems Engineering, B.S. ....	125
Architecture, Certificate .....	266	Biological Systems Engineering: Food and Bioprocess Engineering .....	131
Art .....	1575	Biological Systems Engineering: Machinery Systems Engineering .....	133
Art, B.S. ....	1585	Biological Systems Engineering: Natural Resources and Environmental Engineering .....	134
Art, BFA .....	1595	Biology, B.A. (L&S) .....	1025
Art Education, B.S. ....	1575	Biology, B.S. (CALs) .....	91
Art History .....	420	Biology, B.S. (L&S) .....	1044
Art History, B.A. ....	420	Biology Core Curriculum .....	533
Art History, B.S. ....	428	Biology Core Curriculum Honors, Certificate .....	534
Art History, Certificate .....	436	Biology in Engineering for Engineering Majors, Certificate .....	249
Art Studio, Certificate .....	1583	Biology, Minor .....	1614
Art: Graphic Design, B.S. ....	1593	Biology: Evolutionary Biology .....	99
		Biology: Evolutionary Biology .....	1033
		Biology: Evolutionary Biology .....	1052

Biology: Plant Biology .....	105	Chemical Engineering, B.S. ....	259
Biology: Plant Biology .....	1039	Chemistry .....	575
Biology: Plant Biology .....	1058	Chemistry, B.A. ....	577
Biomedical Engineering .....	248	Chemistry, B.S. ....	585
Biomedical Engineering, B.S. ....	251	Chemistry, Minor .....	1616
Botany .....	536	Chicana/o and Latina/o Studies .....	593
Botany, B.A. ....	536	Chicana/o and Latina/o Studies, B.A. ....	593
Botany, B.S. ....	541	Chicana/o and Latina/o Studies, B.S. ....	597
Business - School-Wide .....	1474	Chicana/o and Latina/o Studies, Certificate .....	601
Business Administration: Human Resources, BBA .....	1498	Chinese, B.A. ....	470
Business Administration: Management, BBA .....	1501	Chinese, B.S. ....	476
Business Administration: Marketing, BBA .....	1519	Chinese Professional Communication, Certificate .....	467
Business, Certificate .....	1475	Civil and Environmental Engineering .....	265
Business Fundamentals, Summer Certificate .....	1474	Civil Engineering, B.S. ....	267
Business Management for Agricultural and Life Sciences, Certificate ....	60	Civil Engineering: Construction Engineering and Management .....	273
Business: Accounting, BBA .....	1469	Civil Engineering: Environmental Engineering .....	275
Business: Actuarial Science, BBA .....	1537	Civil Society and Community Studies .....	1792
Business: Entrepreneurship, BBA .....	1504	Classical and Ancient Near Eastern Studies .....	603
Business: Finance, Investment, and Banking, BBA .....	1478	Classical Humanities, B.A. ....	604
Business: Human Resource Management, BBA .....	1504	Classical Humanities, B.S. ....	610
Business: Information Systems, BBA .....	1525	Classical Studies, Certificate .....	615
Business: International Business, BBA .....	1482	Classics, B.A. ....	617
Business: Management and Human Resources, BBA .....	1505	Classics, B.S. ....	621
Business: Management and Human Resources: Entrepreneurship .....	1510	College of Agricultural and Life Sciences .....	43
Business: Management and Human Resources: Entrepreneurship/Human Resources .....	1511	College of Agricultural and Life Sciences Honors .....	63
Business: Management and Human Resources: Entrepreneurship/Management .....	1512	College of Engineering .....	237
Business: Management and Human Resources: Human Resources .....	1513	College of Engineering Honors in the Liberal Arts .....	304
Business: Management and Human Resources: Management .....	1514	College of Letters & Science .....	360
Business: Management and Human Resources: Management/Human Resources .....	1515	College of Letters & Science Honors in the Liberal Arts .....	1133
Business: Management, BBA .....	1516	Communication Arts .....	632
Business: Marketing, BBA .....	1522	Communication Arts, B.A. ....	632
Business: Operations and Technology Management, BBA .....	1527	Communication Arts, B.S. ....	644
Business: Real Estate and Urban Land Economics, BBA .....	1534	Communication Arts: Communication Science and Rhetorical Studies .	636
Business: Risk Management and Insurance, BBA .....	1540	Communication Arts: Communication Science and Rhetorical Studies .	647
Business: Supply Chain Management, BBA .....	1531	Communication Arts: Radio-Television-Film .....	640
		Communication Arts: Radio-Television-Film .....	651
		Communication Sciences and Disorders .....	659
		Communication Sciences and Disorders, B.A. ....	660
Cartography and Geographic Information Systems, B.A. ....	774	Communication Sciences and Disorders, B.S. ....	665
Cartography and Geographic Information Systems, B.S. ....	778	Communication Sciences and Disorders, BSE .....	1617
Center for Law, Society, and Justice .....	558	Community and Environmental Sociology .....	136
Chemical and Biological Engineering .....	258	Community and Environmental Sociology, B.S. ....	136

Community and Nonprofit Leadership, B.S. ....	1793	Economics, B.S. ....	694
Computer Engineering, B.S. ....	290	Economics, Minor ....	1624
Computer Engineering: Machine Learning and Data Science, B.S. ....	295	Economics: Mathematical Emphasis ....	692
Computer Sciences ....	669	Economics: Mathematical Emphasis ....	700
Computer Sciences, B.A. ....	669	Education - School-Wide ....	1695
Computer Sciences, B.S. ....	674	Education and Educational Services, Certificate ....	1720
Computer Sciences, Certificate ....	679	Education Studies, B.S. ....	1700
Conservation Biology, B.A. ....	545	Educational Policy Studies ....	1699
Conservation Biology, B.S. ....	552	Educational Policy Studies, Certificate ....	1707
Consulting, Certificate ....	1476	Educational Psychology ....	1719
Consumer Behavior and Marketplace Studies, B.S. ....	1797	Electrical and Computer Engineering ....	289
Consumer Finance and Financial Planning, B.S. ....	1800	Electrical Engineering, B.S. ....	296
Consumer Marketplace Studies, B.S. ....	1803	Electrical Engineering: Machine Learning and Data Science, B.S. ....	303
Consumer Science ....	1796	Elementary Education and Special Education, BSE ....	1748
Criminal Justice, Certificate ....	559	Elementary Education, BSE ....	1625
Curriculum and Instruction ....	1612	Elementary Education: Early Childhood/English as a Second Language .....	1632
		Elementary Education: Kindergarten - 9th Grade ....	1634
Dairy Science, B.S. ....	85	Elementary Education: Kindergarten - 9th Grade/Special Education Kindergarten - 12th Grade Dual Certification ....	1638
Dance ....	1678	Elementary Education: Middle Childhood through Early Adolescence/ Content-focused Minor ....	1640
Dance, B.S. ....	1680	Elementary Education: Middle Childhood through Early Adolescence/ English as a Second Language ....	1642
Dance, BFA ....	1686	Elementary Education: Middle Childhood through Early Adolescence/ Special Education Dual Cert ....	1644
Dance, Certificate ....	1692	Engineering - College-wide ....	304
Dance Studies, Certificate ....	1679	Engineering Data Analytics, Certificate ....	311
Data Science, B.A. ....	1420	Engineering for Energy Sustainability, Certificate ....	344
Data Science, B.S. ....	1425	Engineering Mechanics, B.S. ....	324
Data Science, Certificate ....	1430	Engineering Mechanics: Aerospace Engineering ....	329
Design Strategy, Certificate ....	1811	Engineering Mechanics: Astronautics ....	332
Design Studies ....	1810	Engineering Physics, B.S. ....	345
Development Economics, Certificate ....	61	Engineering Thermal Energy Systems, Certificate ....	335
Digital Cinema Production, Certificate ....	655	English ....	702
Digital Media Analytics, Certificate ....	1375	English as a Second Language, Minor ....	1646
Digital Studies, Certificate ....	656	English, B.A. ....	703
Disability Rights and Services, Certificate ....	1747	English, B.S. ....	711
		English Language Arts, Minor ....	1646
Early Childhood Education, Minor ....	1623	English, Minor ....	1649
Earth Science, Minor ....	1623	English: Emphasis on Creative Writing ....	708
East Asian Studies, Certificate ....	900	English: Emphasis on Creative Writing ....	716
East Central European Languages, Literatures, and Cultures, Certificate .....	808	English: English Language and Linguistics ....	709
Economic Analytics, Certificate ....	683	English: English Language and Linguistics ....	717
Economics ....	681		
Economics, B.A. ....	685		

Entomology .....	142	Geography: Physical Geography: Earth Systems and Environmental Processes .....	788
Entomology, B.S. ....	143	Geography: Physical Geography: Earth Systems and Environmental Processes .....	795
Entrepreneurship, Certificate .....	1517	Geological Engineering, B.S. ....	282
Environmental Engineering, B.S. ....	277	Geology and Geophysics, B.A. ....	797
Environmental Sciences, B.A. (L&S) .....	516	Geology and Geophysics, B.S. ....	801
Environmental Sciences, B.S. (CALS) .....	221	Geoscience .....	796
Environmental Sciences, B.S. (L&S) .....	525	German, B.A. ....	812
Environmental Studies .....	723	German, B.S. ....	817
Environmental Studies .....	1444	German, Certificate .....	822
Environmental Studies, Certificate .....	1444	German, Nordic, and Slavic .....	806
Environmental Studies Major .....	723	Global Cultures, Languages, and Education, Certificate .....	1708
European Studies, Certificate .....	903	Global Health, B.S. ....	148
Finance .....	1478	Global Health, Certificate .....	155
Folklore, Certificate .....	810	Graphic Design, Certificate .....	1611
Food Science .....	159	Health and the Humanities, Certificate .....	719
Food Science, B.S. ....	160	Health Education, Minor .....	1723
Food Systems, Certificate .....	141	Health Policy, Certificate .....	1097
Forest and Wildlife Ecology .....	165	Health Promotion and Health Equity, B.S. ....	1724
Forest Science, B.S. ....	166	History .....	854
French and Italian .....	731	History, B.A. ....	855
French, B.A. ....	732	History, B.S. ....	867
French, B.S. ....	737	History, Certificate .....	880
French, Certificate .....	742	History, Minor .....	1653
Game Design, Certificate .....	1649	Horticulture .....	184
Gaylord Nelson Institute for Environmental Studies .....	1444	Horticulture, B.S. ....	185
Gender and Women's Studies .....	752	Human Development and Family Studies .....	1826
Gender and Women's Studies, B.A. ....	753	Human Development and Family Studies, B.S. ....	1827
Gender and Women's Studies, B.S. ....	760	Human Ecology - School-wide .....	1831
Gender and Women's Studies, Certificate .....	768	Individual Major, B.A. ....	1134
Genetics .....	178	Individual Major, B.S. ....	64
Genetics and Genomics, B.S. ....	178	Individual Major, B.S. ....	1137
Geography .....	773	Individual Major, B.S. ....	1831
Geography, B.A. ....	783	Individual Major, BSE .....	1695
Geography, B.S. ....	789	Industrial and Systems Engineering .....	310
Geography, Minor .....	1650	Industrial Engineering, B.S. ....	312
Geography: Human Geography .....	787	Information .....	886
Geography: Human Geography .....	793	Information Science, B.A. ....	886
Geography: People-Environment Geography .....	788	Information Science, B.S. ....	891
Geography: People-Environment Geography .....	794	Institute for Regional and International Studies .....	896

Integrated Liberal Studies .....	1017	Latin American, Caribbean, and Iberian Studies, B.A. ....	992
Integrated Liberal Studies, Certificate .....	1018	Latin American, Caribbean, and Iberian Studies, B.S. ....	998
Integrated Studies in Science, Engineering, and Society, Certificate ...	1387	Latin, B.A. ....	625
Integrative Biology .....	1024	Latin, B.S. ....	628
Integrative Design of Built and Natural Environments, Certificate .....	1296	Legal Studies, B.A. ....	562
Interior Architecture, B.S. ....	1813	Legal Studies, B.S. ....	569
International Business .....	1482	Letters & Science - College-Wide .....	1112
International Business, Certificate .....	1477	LGBTQ+ Studies, Certificate .....	771
International Development and Education, Certificate .....	1717	Life Sciences Communication .....	191
International Engineering, Certificate .....	305	Life Sciences Communication, B.S. ....	192
International Studies, B.A. ....	913	Linguistics, B.A. ....	1103
International Studies, B.S. ....	953	Linguistics, B.S. ....	1107
International Studies: Culture in an Age of Globalization .....	921		
International Studies: Culture in an Age of Globalization .....	960	Management and Human Resources .....	1498
International Studies: Global Security .....	932	Manufacturing Engineering, Certificate .....	336
International Studies: Global Security .....	972	Marketing .....	1519
International Studies: Politics and Policy in the Global Economy .....	943	Material Culture Studies, Certificate .....	1817
International Studies: Politics and Policy in the Global Economy .....	982	Materials Science and Engineering .....	318
Introductory Studies in Dance/Movement Therapy, Certificate .....	1694	Materials Science and Engineering, B.S. ....	318
Italian, B.A. ....	744	Mathematics .....	1150
Italian, B.S. ....	747	Mathematics and Science Dual, Minor .....	1658
Italian, Certificate .....	751	Mathematics, B.A. ....	1155
		Mathematics, B.S. ....	1176
		Mathematics, Certificate .....	1197
Japanese, B.A. ....	487	Mathematics, Minor .....	1660
Japanese, B.S. ....	492	Mathematics Specialized, Minor .....	1660
Japanese Professional Communication, Certificate .....	484	Mathematics: Mathematics for Data Science .....	1161
Jewish Studies, B.A. ....	1253	Mathematics: Mathematics for Data Science .....	1183
Jewish Studies, B.S. ....	1258	Mathematics: Mathematics for Economics and Finance .....	1163
Jewish Studies, Certificate .....	1263	Mathematics: Mathematics for Economics and Finance .....	1185
Journalism, JBA .....	1377	Mathematics: Mathematics for Programming and Computing .....	1166
Journalism, JBS .....	1381	Mathematics: Mathematics for Programming and Computing .....	1187
		Mathematics: Mathematics for Secondary Education .....	1168
Kinesiology .....	1722	Mathematics: Mathematics for Secondary Education .....	1189
Kinesiology, B.S. ....	1730	Mathematics: Mathematics for Statistical Analysis and Risk Assessment .....	1170
Kinesiology: Exercise & Movement Science .....	1737	Mathematics: Mathematics for Statistical Analysis and Risk Assessment .....	1191
		Mathematics: Mathematics for the Physical and Biological Sciences ....	1172
La Follette School of Public Affairs .....	1096	Mathematics: Mathematics for the Physical and Biological Sciences ....	1193
Landscape and Urban Studies, B.A. ....	1298	Mead Witter School of Music .....	1198
Landscape and Urban Studies, B.S. ....	1303	Mechanical Engineering .....	323
Landscape Architecture, BLA .....	1308	Mechanical Engineering, B.S. ....	337
Language Sciences .....	1103		
Languages and Cultures of Northern Europe, Certificate .....	824		



Medieval Studies, Certificate .....	883		
Microbiology, B.A. (L&S) .....	1141		
Microbiology, B.S. (CAL)S .....	108	Personal Finance, B.S. ....	1805
Microbiology, B.S. (L&S) .....	1145	Personal Finance: Financial Planning, B.S. ....	1809
Middle East Studies, Certificate .....	1004	Pharmaceutical Sciences, B.S. ....	1857
Molecular and Cell Biology, B.A. ....	1061	Pharmacology and Toxicology, B.S. ....	1859
Molecular and Cell Biology, B.S. ....	1067	Philosophy .....	1267
Mosse/Weinstein Center for Jewish Studies .....	1252	Philosophy, B.A. ....	1267
Music, B.A. ....	1201	Philosophy, B.S. ....	1271
Music, B.S. ....	1213	Physical Education, B.S. ....	1738
Music: Education, B.M. ....	1226	Physics .....	1275
Music: Education: Choral/General, B.M. ....	1233	Physics, B.A. ....	1277
Music: Education: Instrumental/General, B.M. ....	1234	Physics, B.S. ....	1285
Music: Performance .....	1210	Physics, Certificate .....	1293
Music: Performance .....	1223	Physics, Minor .....	1661
Music: Performance, B.M. ....	1235	Pilates, Certificate .....	1694
Music: Performance: Brass, Percussion, Woodwinds, B.M. ....	1244	Planning and Landscape Architecture .....	1296
Music: Performance: Composition, B.M. ....	1245	Plant and Agroecosystem Sciences .....	211
Music: Performance: Guitar, B.M. ....	1246	Plant Pathology .....	211
Music: Performance: Jazz, B.M. ....	1247	Plant Pathology, B.S. ....	214
Music: Performance: Organ, B.M. ....	1248	Polish, B.A. ....	826
Music: Performance: Piano, B.M. ....	1249	Polish, B.S. ....	830
Music: Performance: Strings, B.M. ....	1250	Political Economy, Philosophy, and Politics, Certificate .....	1312
Music: Performance: Voice, B.M. ....	1251	Political Science .....	1312
		Political Science, B.A. ....	1314
Naval Science, BNS .....	305	Political Science, B.S. ....	1320
Neurobiology, B.A. ....	1073	Political Science, Certificate .....	1326
Neurobiology, B.S. ....	1079	Political Science, Minor .....	1662
Nuclear Engineering and Engineering Physics .....	343	Portuguese, B.A. ....	1404
Nuclear Engineering, B.S. ....	352	Portuguese, B.S. ....	1407
Nuclear Engineering Materials, Certificate .....	351	Preparing to Teach Abroad, Certificate .....	1664
Nuclear Engineering: Radiation Sciences .....	357	Promoting Activity for Diverse Abilities, Certificate .....	1746
Nursing, BSN .....	1842	Psychology .....	1328
Nursing, BSN (Accelerated Program) .....	1847	Psychology, B.A. ....	1329
Nursing, BSN (Collaborative Program) .....	1851	Psychology, B.S. ....	1333
Nutritional Sciences .....	199	Psychology, Minor .....	1666
Nutritional Sciences, B.S. ....	200	Public Policy, Certificate .....	1100
Nutritional Sciences, B.S. Nutrition and Dietetics .....	206		
		Real Estate and Urban Land Economics .....	1533
Operations and Information Management .....	1524	Rehabilitation Psychology and Special Education .....	1747
Organic Agriculture, Certificate .....	212	Rehabilitation Psychology, B.S. ....	1757
		Religious Studies .....	1338

Religious Studies, B.A. ....	1338	Spanish, B.A. ....	1412
Religious Studies, B.S. ....	1343	Spanish, B.S. ....	1416
Religious Studies, Certificate ....	1347	Spanish Studies for Business Students, Certificate ....	1410
Risk and Insurance ....	1537	Special Education, BSE ....	1762
Russian, B.A. ....	834	Special Education: Early Childhood Special Education Birth - Grade 3, BSE .....	1769
Russian, B.S. ....	837	Special Education: Early Childhood Special Education/Special Education Dual Certification Birth-Grade 12, BSE ....	1771
Russian, East European, and Central Asian Studies, Certificate ....	1008	Special Education: Kindergarten - 9th Grade/Special Education Kindergarten - 12th Grade Dual Certification, BSE ....	1772
Sandra Rosenbaum School of Social Work ....	1349	Special Education: Middle Childhood through Early Adolescence/ Elementary Education Dual Cert, BSE ....	1774
Scandinavian Studies, B.A. ....	841	Special Education: Special Education Cross Categorical K-12, BSE ....	1775
Scandinavian Studies, B.S. ....	845	Sports Communication, Certificate ....	1385
Scandinavian Studies, Certificate ....	849	Statistics ....	1420
School of Business ....	1452	Statistics, B.A. ....	1432
School of Education ....	1543	Statistics, B.S. ....	1437
School of Human Ecology ....	1786	Statistics, Certificate ....	1442
School of Human Ecology Honors ....	1833	Sustainability, Certificate ....	1450
School of Journalism and Mass Communication ....	1375	Teaching English to Speakers of Other Languages, Certificate ....	722
School of Nursing ....	1834	Technical Communication, Certificate ....	307
School of Nursing ....	1842	Textiles and Design, Certificate ....	1820
School of Nursing Honors ....	1855	Textiles and Fashion Design, B.S. ....	1821
School of Pharmacy ....	1855	Textiles and Fashion Design: FIT (Fashion Institute of Technology) ....	1825
School of Pharmacy ....	1857	Theatre and Drama ....	1777
Science Communication, Certificate ....	198	Theatre and Drama, B.S. ....	1777
Science of Fermented Food and Beverages, Certificate ....	164	Theatre and Drama: Acting ....	1783
Science Specialized, Minor ....	1666	Theatre, Certificate ....	1785
Slavic Studies, Certificate ....	852	Undergraduate Guide ....	9
Social Justice and Education, Certificate ....	1718	Wildlife Ecology, B.S. ....	172
Social Studies, Minor ....	1667	Zoology, B.A. ....	1086
Social Welfare, B.A. ....	1349	Zoology, B.S. ....	1091
Social Welfare, B.S. ....	1357		
Social Work, BSW ....	1365		
Sociology ....	1386		
Sociology, B.A. ....	1389		
Sociology, B.S. ....	1396		
Sociology, Minor ....	1676		
Sociology: Concentration in Analysis and Research ....	1395		
Sociology: Concentration in Analysis and Research ....	1402		
Soil Science ....	220		
Soil Science, B.S. ....	230		
South Asian Studies, Certificate ....	1012		
Southeast Asian Studies, Certificate ....	1015		
Spanish and Portuguese ....	1403		